SL-C9E
RMT-212

SERVICE MANUAL

AEP Model

June, 1982

711D SYSTEM

SPECIFICATIONS

Also refer to OPERATION MANUAL and ADJUSTMENT MANUAL.

System

Video recording system	Rotary two-head helical scanning
Video signal	CCIR standards, PAL colour
Aerial input	75-ohm, asymmetrical aerial socket
Channel coverage	VHF: Western European channels E2—12 UHF: Western European channels E21—68 (Up to 30 stations can be preset.)
RF output signal	UHF channels E30 to E39 (variable) 75 ohms, unbalanced

Video

Input	VIDEO IN: BNC connector 1 V p-p $^{+1.0}_{-0.5}$ V p-p 75 ohms unbalanced, sync negative
Output	VIDEO OUT: BNC connector 1.0 V (p-p) ±0.1 V (p-p) 75 ohms unbalanced, sync negative
Horizontal resolution	Colour: 260 lines B/W: 300 lines
Signal-to-noise ratio	Colour: Better than 40 dB B/W: Better than 43 dB

Audio

Input	AUDIO IN: phono jacks 47 kilohms, −10 dBs (0 dBs = 0.775 V rms) MIC: mini jacks −60 dBs, suitable for microphones with 600 ohm impedance
Output	AUDIO OUT: phono jacks Load impedance less than 10 kilohms −5 dBs with 47 kilohms load unbalanced
Frequency response	50 Hz to 10 kHz
Signal-to-noise ratio	Better than 43 dB (BNR ON)
Audio distortion	Less than 4% at 400 Hz

Tape transport

Tape speed	18.73 mm/sec.
Maximum recording time	2 hours 10 min. (with Sony L-500 cassette) 3 hours 15 min. (with L-750)
Fast forward/rewind time	Within 3 1/2 min. (with L-500)

Timer

Clock	Crystal lock
Control time	24-hour cycle
Timer setting	Only for recording 9 events within 14 days can be set.
Power back-up	Incorporated self-charging battery Back-up duration: up to 5 minutes at one time (after the battery has been charged at least 30 hours).

— Continued on next page —

MICROFILM

Consumer VIDEO

Beta

VIDEO CASSETTE RECORDER

SONY®

General

Power requirements	110–240 V ac ±10%, 50/60 Hz
Power consumption	35 W
Storage temperature	−20°C to +65°C (−4°F to +149°F)
Operating temperature	5°C to 40°C (41°F to 104°F)
Dimensions	Approx. 430 × 105 × 362 mm (w/h/d) (17 × 4 1/4 × 14 3/8 inches) including projecting parts and controls
Weight	Approx. 10 kg (22 lbs 1 oz) net

Accessories supplied

75-ohm coaxial cable for recorder to TV connection 1
Remote control unit RMT-212 with two size AA batteries 1
RF channel adjustment tool 1

Design and specifications subject to change without notice.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

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SECTION 1
GENERAL

FEATURES

Space-saving front loading design

Ease of operation
Recording can be made by simply inserting a video cassette and depressing one button.
Feather-touch logic-controlled function buttons switch the recorder directly from one mode to another.

Variable playback speed
Tape speed can be changed to any of these modes: still, frame-by-frame advance, slow-motion and double speed.

Unique picture search function
To locate a particular portion rapidly, the tape may be advanced or rewound at high speed while it displays the pictures on the TV screen.

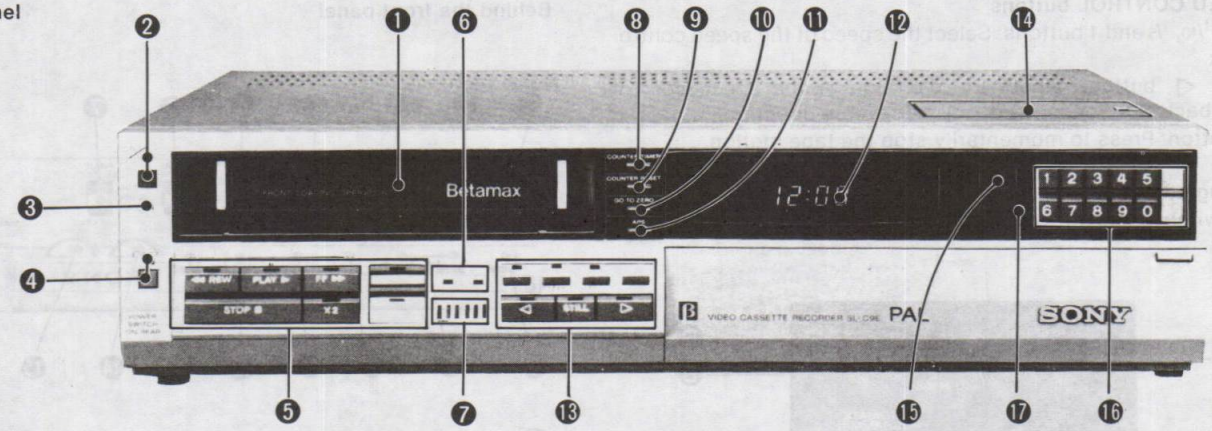
Timer recording
With the aid of the built-in digital timer, a TV programme can be recorded while the recorder is unattended. Recording may be started at any time and stopped after a predetermined interval on any of the next fourteen days. In addition, programming of up to 9 timer settings is possible.
The timer is simple to set.

Easy tape location
APS function: To locate the starting point of any recorded programme.
GO TO ZERO function: To locate any point on a tape for repeat viewing of a particular scene.

Audio dubbing—an audio programme can be added to any existing video recording.
Remote control—with the supplied remote control unit, tape transport can be remotely controlled.
14-pin camera connector—when connecting a Sony video camera equipped with the K-type connector, a single cable can be used for the video, audio and tape run/stop signals, as well as for camera power.

LOCATION AND FUNCTION OF CONTROLS

Front panel



❶ Cassette compartment
Insert a cassette to be recorded or played back after turning on the recorder.

❷ ON/STANDBY button and lamp
Press to turn on the unit after depressing the POWER switch to ON. The lamp will light up. Press again so that the recorder is in the standby mode and the lamp goes off.
The timer section will continue to operate and the time will be displayed even if the ON/STANDBY button is off so long as the POWER switch is depressed to ON.

❸ TIMER lamp
This lamp lights up when the TIMER REC button is pressed to activate the timer recording standby mode.

❹ EJECT button and lamp
Press to remove the cassette.
This button does not function when the recorder is turned off.

❺ Function buttons

▶ PLAY button:	Press to play the tape back.
◀◀ REW button:	Press to rewind the tape. Also used for the reverse picture search operation.
▶▶ FF button:	Press to advance the tape rapidly. Also used for the forward picture search operation.
■ STOP button:	Press to stop the tape.
×2 button:	Press to obtain a double-speed playback picture.
● REC button:	Press to start recording.
❙❙ PAUSE button:	Press to stop the tape for a moment during recording or playback. A still picture will be seen during playback. Press again to release the pause mode.

❻ AUDIO DUB CH-1/L and CH-2/R lamps
These lamps light up when the AUDIO DUB buttons behind the front panel is pressed.

❼ TAPE REMAINING indicator
This shows the amount of tape remaining.

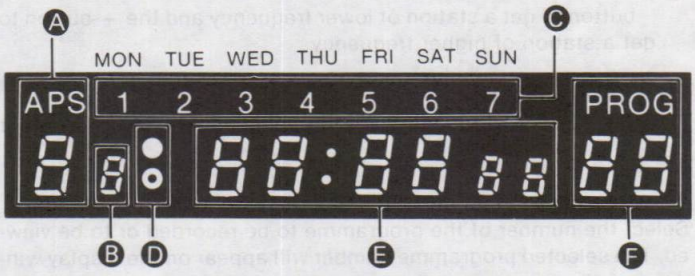
❽ COUNTER/TIMER select button
This is used to select either clock or time counter display.
Press the button to set the display to time counter. Press it again to reset to clock.

❾ COUNTER RESET button
Press to set the time counter reading to "0:00ₒₒ".

❿ GO TO ZERO button
Press this button in the stop mode to return the tape to the "0:00ₒₒ" point on the time counter.
● To activate the GO TO ZERO function, press the COUNTER/TIMER button to set the display to time counter.

⓫ APS button
Press to activate the Automatic Programme Search function and to set the number of the recorded programme you want to view. The selected number will be displayed on the time display.
If it is known, the present selection number will appear when this button is pressed once.

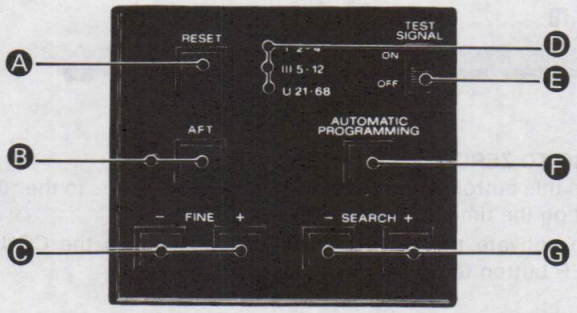
⓬ Time display
This indicates the present time. When the COUNTER/TIMER button is pressed when the recorder is on, the display shows the tape running time at the normal playback speed. To revert to the time display, press the button again. The display always shows the present time when the recorder is turned off.
Timer programmes, programme number and APS number are shown here.



Ⓐ APS indication and number: The "APS" indication appears when the APS button is pressed. The number shows the present APS number or the number selected with the APS button.
Ⓑ Event number
Ⓒ Day of week indications: Show the day of the week or days the timer-activated recording will take place.The boxed numbers show the second week.
Ⓓ Turn-on and turn-off setting indications: The "●" mark shows you are setting the turn-on time and the "O" mark shows the turn-off time.
Ⓔ Time and counter display: Shows the clock time. When the COUNTER/TIMER button is pressed to COUNTER, the display shows the counter number.
Ⓕ Programme number: Shows the programme number selected with the programme select buttons.

⓭ SPEED CONTROL buttons
FRAME, 1/10, 1/5 and 1 buttons: Select the speed of the speed control playback.
▷ and ◁ buttons: Select the direction of the speed control playback: ▷ for forward, ◁ for reverse direction.
STILL button: Press to momentarily stop the tape motion.

⓮ Tuning compartment
All the switches and buttons for presetting stations are in this compartment.



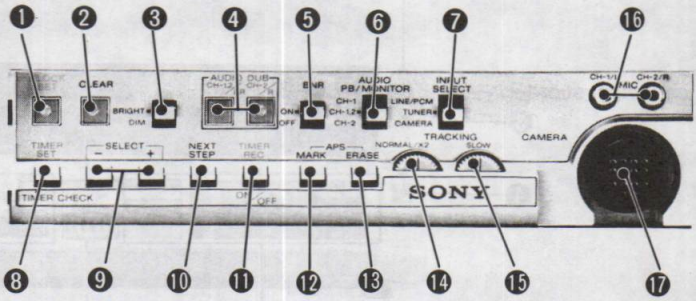
Ⓐ RESET button: To clear the preset station, press this button.
Ⓑ AFT button and ON lamp: After the station presetting is finished, the ON lamp lights.
This button is automatically set to OFF (and the lamp goes off) when the FINE buttons are pressed.
Ⓒ FINE + and – buttons: Press to fine tune the station.
Ⓓ Tuning indicator: Indicates the approximate position of the tuned station within the tuning band scanned.
Ⓔ TEST SIGNAL switch: Set to ON to obtain a test pattern.
Ⓕ AUTOMATIC PROGRAMMING button and lamp: To preset the receivable stations automatically, press this button. The corresponding lamp blinks during automatic and manual programming.
Ⓖ SEARCH + and – buttons: Press to tune in a station. Press the – button to get a station of lower frequency and the + button to get a station of higher frequency.

⓯ Remote control detector
Point the infrared transmitter of the supplied remote control unit here.

⓰ Programme select buttons
Select the number of the programme to be recorded or to be viewed. The selected programme number will appear on the display window.

⓱ STEREO lamp
Lights up when a tape recorded in stereo is played back.

Behind the front panel



❶ CLOCK SET button
Press to set the clock.

❷ CLEAR button
Press to clear the timer programme memorized.

❸ BRIGHT/DIM switch
Select the brightness of the time display.

❹ AUDIO DUB buttons
Press to record new audio on a tape on which the video programme has been previously recorded. Press the CH-1,2/L,R button to replace all the previously recorded sound.
Press the CH-2/R button to replace the audio of channel 2 with new sound.

❺ BNR (Beta Noise Reduction) switch
ON: To record and playback sound with the BNR system
OFF: To record and playback sound without the BNR system

❻ AUDIO PB/MONITOR switch
Select the sound of the audio channel 1 and 2 when playing back the tape recorded in stereo or bilingual.
For details, see page 11.

❼ INPUT SELECT switch
Select the programme to be recorded
LINE/PCM: for recording signals connected to the VIDEO IN and AUDIO IN jacks.
TUNER: for recording TV programmes
CAMERA: for recording camera signals connected to the CAMERA connector.

❽ TIMER SET/TIMER CHECK button
Press to set the timer for recording.
To check the contents of a timer programme, press this button.

❾ SELECT + and – buttons
Used to set the clock time, the day of the week and timer programmes.

❿ NEXT STEP button
Used for memorizing the clock time, the day of the week and timer programmes set by the SELECT buttons.

⓫ TIMER REC button
Press to activate the timer recording standby mode. The TIMER lamp will light up.

⓬ APS MARK button
Press to record a cue signal at the desired point on the tape for the APS operation.

⓭ APS ERASE button
Press to erase the cue signal recorded on the tape.

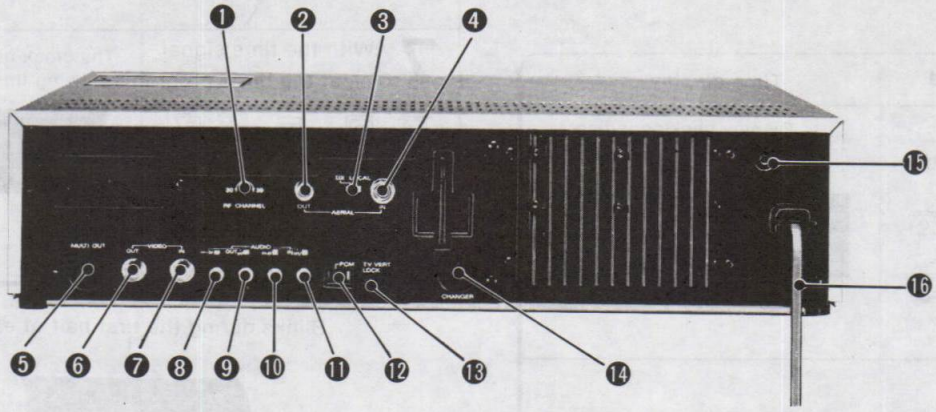
⓮ TRACKING NORMAL/x2 control
Turn to eliminate the streaks or snow in a double speed playback picture or for playback of a cassette recorded on another video cassette recorder.
- Return the control to its centre position after viewing the particular cassette.

⓯ TRACKING SLOW control
Turn to eliminate the streaks or snow in a still, a frame-by-frame or slow motion playback.
- Return the control to its centre position after playback.

⓰ MIC jacks
Connect low impedance microphones. The microphone connected to the CH-1/L jack is recorded on channel 1, and the microphone on the CH-2/R jack is recorded on channel 2.

⓱ CAMERA connector (14-pin, K-type)
Connect a video camera, such as a HVC-4000P.

Rear panel



❶ RF CHANNEL screw
If there is interference on the factory preset channel for RF output and the signal of this recorder unit cannot be displayed clearly on the TV screen, adjust this screw with the supplied screwdriver.

❷ AERIAL OUT socket
Connect the aerial input of the TV receiver using the supplied cable.

❸ DX/LOCAL switch
Normally set this switch to DX. If the TV signal is very strong, set the switch to LOCAL.

❹ AERIAL IN socket
Connect the aerial cable.

❺ MULTI OUT connector (8-pin)
Connect the multi input of a colour monitor, such as the Sony KX-20PS1, or a TV receiver such as the Sony KV-2212ES, with VK-2D multi cable (optional).

❻ VIDEO OUT jack (BNC type)
Connect to the video input of another video cassette recorder or of a video monitor.

❼ VIDEO IN jack (BNC type)
Connect to the video output of a camera, another video cassette recorder, etc.

❽ AUDIO OUT CH-2/R jack (phono type)
Connect to the right input jack of an audio system, a video monitor or a video cassette recorder.

❾ AUDIO OUT CH-1/L jack (phono type)
Connect to the left input jack of an audio system, a video monitor or a video cassette recorder.

❿ AUDIO IN CH-2/R jack (phono type)
Connect to the right output jack of a cassette recorder or an audio amplifier, or to the audio output of a camera or another video cassette recorder.

⓫ AUDIO IN CH-1/L jack (phono type)
Connect to the left output jack of a cassette recorder or an audio amplifier, or to the audio output of a camera or another video cassette recorder.

⓬ PCM switch
Normally set to the right position. For PCM recording and playback using a PCM adaptor, set this switch to the left position.

⓭ TV VERT LOCK (TV vertical lock) control
If a jitter appears in the still, frame-by-frame or slow motion picture, first obtain a still picture and turn this control until the picture is stable.

⓮ CHANGER connector
Used to connect an auto cassette changer which will be available in the near future.

⓯ POWER switch
This is the mains power on/off switch. Keep this button depressed so the timer section will stay active even after the ON/STANDBY button is off. When this switch is released (OFF), the preset and timer settings are all cleared.

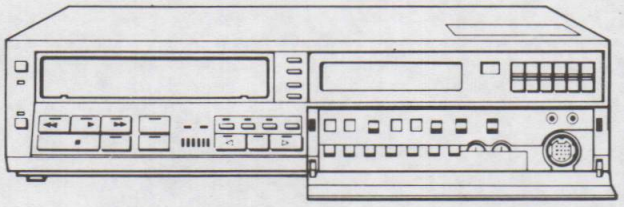
⓰ AC mains lead

CLOCK SETTING

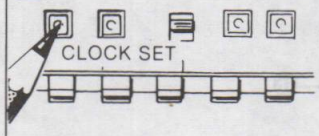
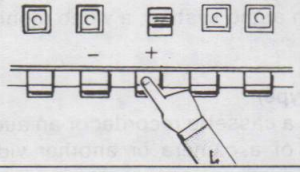
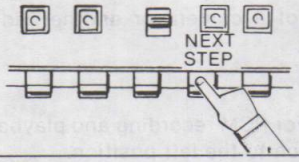
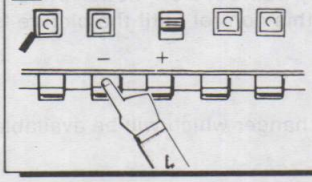
Example: To set the clock to **7:30 on Tuesday.***

***Day indication**

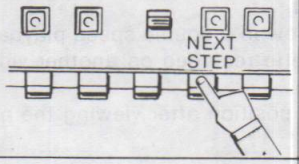
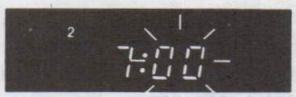
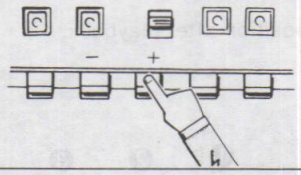
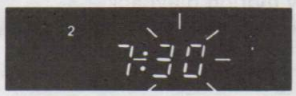
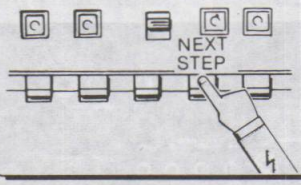
1	Monday	5	Friday
2	Tuesday	6	Saturday
3	Wednesday	7	Sunday
4	Thursday		



Open the lid.

Button to be pressed	Time display
1 Keep pressed more than a second. 	Display blinking indicates the segment to be set.
2 Set the day of the week. to go back to advance 	
3 When today's day is displayed, 	
4 Set the hour digit(s). 	

The + and – buttons can be pressed in two ways:
When you hold a button down, the segments will be advanced continuously until the button is released.
When you press and immediately release a button, the segment will be advanced by one.

5 When the current hour is displayed, 	
6 Set the minute digits. 	
7 With the time signal 	The clock now starts operating, showing the correct time.

Blinks during the first half of each minute.

Blinks during the second half of each minute.

Zero second adjustment
Press the CLOCK SET button quickly (less than a second).
While the upper dot is blinking, the clock is set to the time displayed 00 second. For example, if the clock time is 7:30, it is set to 7:30, 00 second.
While the lower dot is blinking, the clock advances one minute and is set to the time displayed 00 second. For example, if the clock time is 7:30, it is set to 7:31, 00 second.

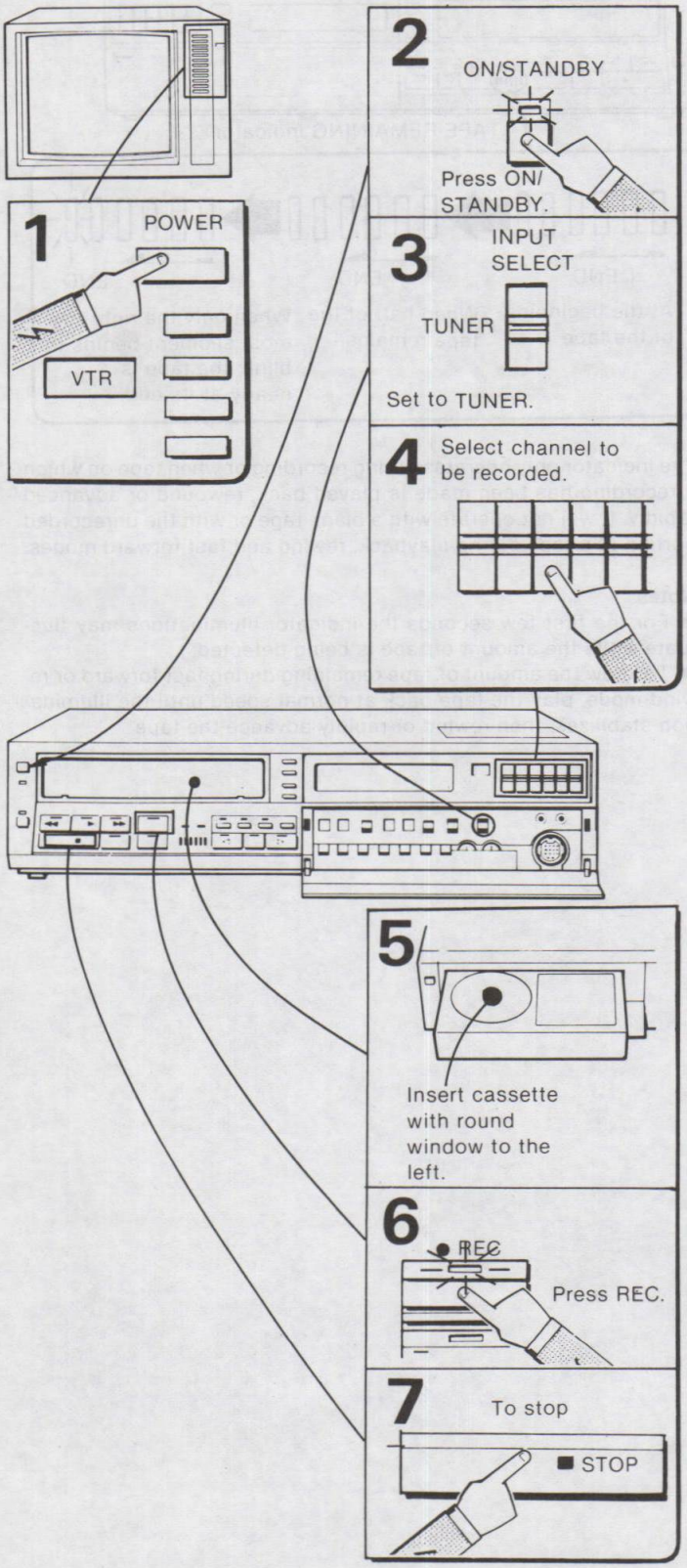
If you press the CLOCK SET button for more than a second, clock adjustment is required again and memorized timer settings are cleared.

When a power interruption has occurred
If power is resumed within about 5 minutes, during timer recording, the colon blinks quickly to indicate the power interruption. A rechargeable battery inside the unit will supply power so that the clock continues to keep time and any timer setting is maintained. The timer activated recording will stop during interruption and be resumed when the power is restored. The battery will be automatically fully recharged when the power cord of the unit has been connected for at least 30 hours. To reset the colon blinking, press any button for clock or timer setting.

If the power interruption continues for more than 5 minutes or if the battery is not fully charged, clock stops, showing "1 (Monday) 0:00". If this happens, set the clock and timer again.
NOTE: If the main POWER switch is pressed to OFF, the same result will be obtained as in power interruption.

BASIC OPERATION
TV PROGRAMME RECORDING
OPERATING PROCEDURE

1. Turn on the TV and tune it to the channel preset for the video recorder.
2. Press the ON/STANDBY button on the recorder.
3. Set the INPUT SELECT switch to TUNER.



4. With the programme select button, select the programme to be recorded. The selected number will be displayed on the time display.
For information how to select the programme number, see "How to select the programme number".
5. Insert a cassette into the recorder correctly.
6. Press the ● REC button. Recording will begin.
7. To stop recording, press the ■ STOP button.

HOW TO SELECT THE PROGRAMME NUMBER

Stations are selected by pressing the programme select buttons: 1 to 29 and 0.
For programmes 1 to 9, press the appropriate single-digit button.
For programmes 10 to 19, first press the [10] button, then the button corresponding to the last digit of the programme number.
For example: for programme 10, press [10] and [0].
for programme 11, press [10] and [1].
Similarly **for programmes 20 to 29**, press the [20] button and then the single-digit button.
For programme 0, press the [0] button only.
● If you don't press any single-digit button within several seconds after pressing the [10] or [20] button, the previous programme setting will be automatically recalled.

CAUTION
Television programmes, films, video tapes and other materials may be copyrighted. Unauthorized recording of such material may be contrary to the provision of the copyright laws.

RECORDING ONE TV PROGRAMME WHILE VIEWING ANOTHER

You can enjoy one TV programme while recording another TV programme as follows:
1. Start recording the desired TV programme in the usual way.
2. Select the station you want to view with the TV's programme selector.

TO KEEP A RECORDED PROGRAMME FROM BEING ACCIDENTALLY ERASED

When a new recording is made on a previously recorded cassette, the previous recording will be automatically erased.

To avoid erasing a recording
Break off the safety tab using a screwdriver or similar object.

To re-record on a cassette which has had the safety tab removed
Cover the slot with a piece of plastic tape.

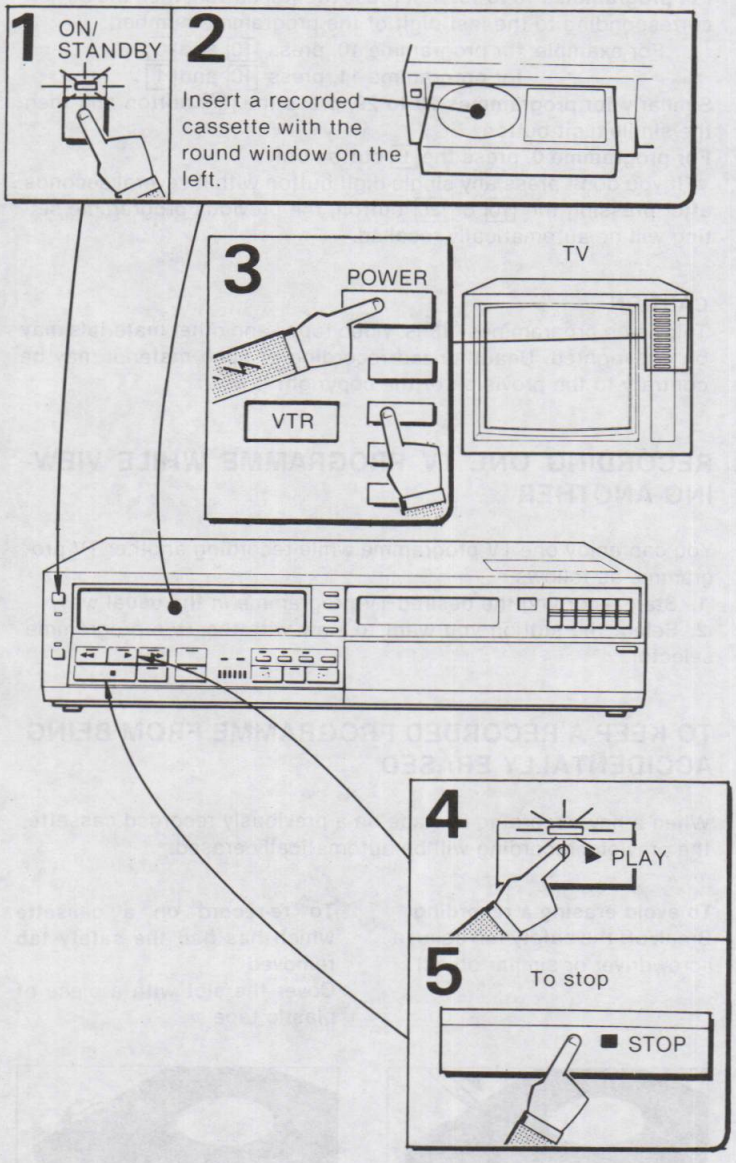
PLAYBACK

OPERATING PROCEDURE

1. Press the ON/STANDBY button on the recorder. The lamp above the button will light up.
2. Insert a recorded cassette correctly.
3. Turn on the TV and tune it to the channel preset for the video recorder.
4. Press the ▶ PLAY button. The lamp will light up and playback will begin.
5. To stop playback, press the ■ STOP button.

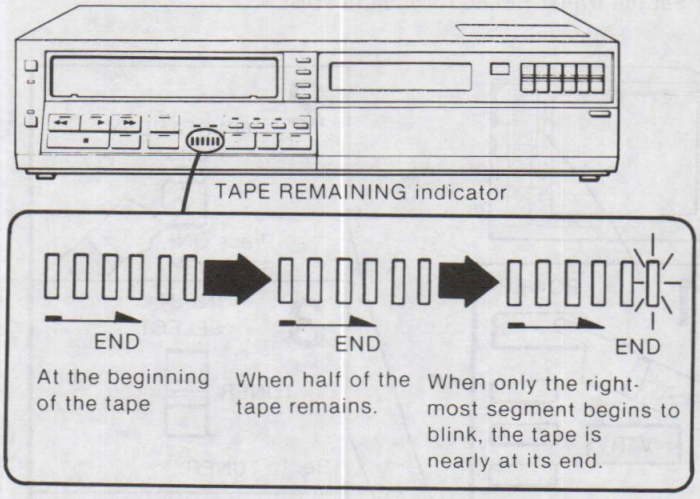
When the tape reaches the end, it will be automatically rewound.

● When the ■ STOP button is pressed, the programme determined by the INPUT SELECT switch position will appear on the TV screen.



TO CHECK THE AMOUNT OF TAPE REMAINING

The TAPE REMAINING indicator shows the amount of tape remaining.


TAPE REMAINING indicator
END
END
END
At the beginning of the tape
When half of the tape remains.
When only the right-most segment begins to blink, the tape is nearly at its end.

The indicator only operates during recording or when tape on which a recording has been made is played back, rewound or advanced rapidly. It will not operate with a blank tape or with the unrecorded portion of a tape during playback, rewind and fast forward modes.

Notes

● For the first few seconds the indicator illuminations may fluctuate while the amount of tape is being detected.

● To know the amount of tape remaining during fast forward or rewind mode, play the tape back at normal speed until the illumination stabilizes, then rewind or rapidly advance the tape.

PLAYBACK OF TAPES RECORDED IN STEREO OR BILINGUAL

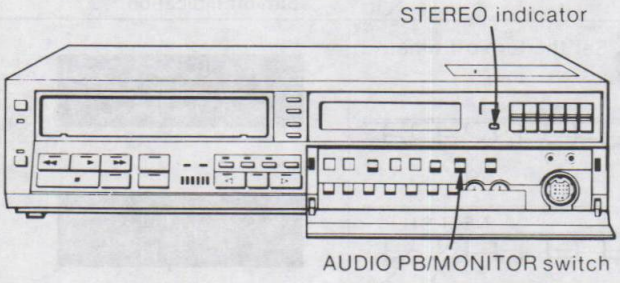
This recorder can play back tapes recorded with stereo or bilingual sound tracks. When such a tape is to be played back, set the AUDIO PB/MONITOR switch as follows.

Playback of stereo sound programmes
Normally, set the switch to the CH-1, 2 position.

Position of AUDIO PB/ MONITOR switch	When using with a colour monitor such as KX-20PS1 or a stereo system	When using with a conventional TV receiver
CH-1	sound of audio channel 1 from both left and right	sound of audio channel 1
CH-1, 2	audio channel 1 sound from left audio channel 2 sound from right	mixed sound of audio channels 1 and 2 (monaural)
CH-2	sound of audio channel 2 from both left and right	sound of audio channel 2

Playback of bilingual programmes
Normally, set the switch to the CH-1 position.

Position of AUDIO PB/ MONITOR switch	When using with a colour monitor such as KX-20PS1 or a stereo system	When using with a conventional TV receiver
CH-1	local language from both left and right	local language
CH-1, 2	local language from left, original language from right	Local language and original language are heard mixed.
CH-2	original language from both left and right	original language

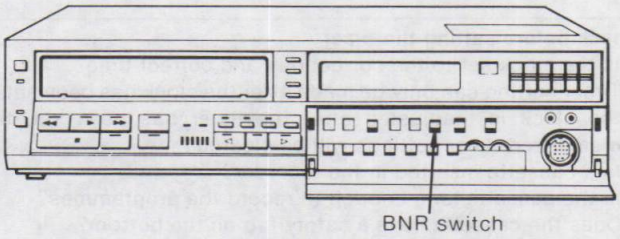


The STEREO indicator will light only during the playback of a tape recorded in stereo.

- The STEREO indicator will not light when playing back a tape recorded in stereo on this recorder (see page 28), but the reproduced sound will be stereo.

TO OBTAIN HIGHER QUALITY SOUND

Set the BNR switch to ON during recording and playback.



The BNR (Beta Noise Reduction) system reduces tape hiss and improves the signal-to-noise ratio, thus permitting clear sound with low noise.

Note
Be sure to set the BNR switch to ON to play back the tape recorded with the BNR switch set to ON; to OFF to play back the tape recorded with the BNR switch set to OFF or recorded on another recorder which does not have the BNR system.

TIMER-ACTIVATED RECORDING

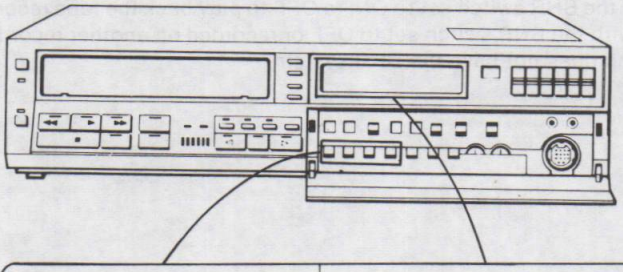
Recording of up to 9 events occurring **within the next two weeks** can be made automatically even when you are not at home.

Check before setting the timer

- Is the clock set to the correct day and correct time? Timer setting can only be made after the clock has been set. If the clock is readjusted after the timer has been set, the memorized timer settings will be cleared.
- Is a cassette inserted in the recorder?
- Is the cassette long enough to record the programmes?
- Does the cassette have a safety tab on the bottom?
- Is the INPUT SELECT switch set to TUNER?

Note: The timer cannot be set during recording.

Example: To record a PROG 2 broadcast from 9:00 to 11:25 on Friday in Event 3.



Button to be pressed	Time display The segment to be set will blink.
1 TIMER SET If the recorder is off, it will be turned on automatically.	turn-on indication The lowest vacant event number will be displayed.
2 Select the event. Indication changes in numerical order. To advance To go back to the previous indication. NEXT STEP	

3 Select the turn-on day.

To go back to the previous indication.

Indication changes as follows;

every day→Monday (1)
→Tuesday (2) .....
→Monday of the next week (1)
→Tuesday of the next week (2)
.....→every day

NEXT STEP

4 Set the turn-on time.

to advance

to go back

NEXT STEP

NEXT STEP

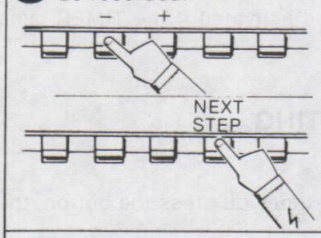
turn-off indication

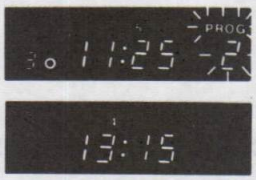
5 Set the turn-off time.

NEXT STEP

NEXT STEP

6 Select the channel to be recorded.



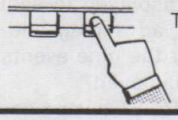


The present time is displayed.
The recorder will be turned off again if it was off before setting the timer.

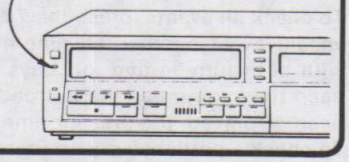
7 Now the Event 3 is set. To set more events, repeat these steps. (If the unit is off, the unit will be turned on when the TIMER SET button is pressed.)

8

After all the timer settings are finished,



The TIMER lamp will light up unless an error was made.



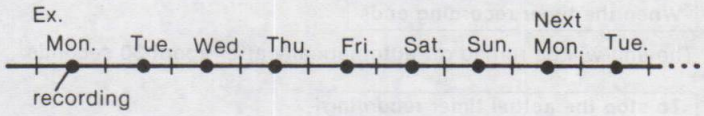
At the preset turn-on time, recording will start automatically and will stop at the preset turn-off time.

ONCE THE TIMER LAMP HAS LIT UP, NO FUNCTION OF THE RECORDER CAN BE ACTIVATED, except for checking the timer setting. To operate the recorder after setting the timer for recording, press the TIMER REC button so that the TIMER lamp goes off.

- After finishing with the recorder, be sure to press the TIMER REC button again to reactivate the timer recording standby mode.

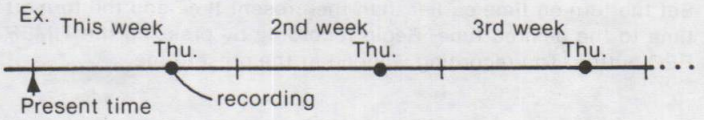
To record an event at the same time everyday

The every day of the week indication is: 1 2 3 4 5 6 7
Press the NEXT STEP button when these indications are blinking.

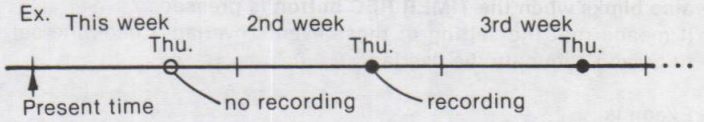


To record an event at the same time every week

Use **Event 9** whose memory will not be erased even after a recording has been made.



If a turn-on day is set seven days ahead, the recording will be done every week at the same time beginning the next week.

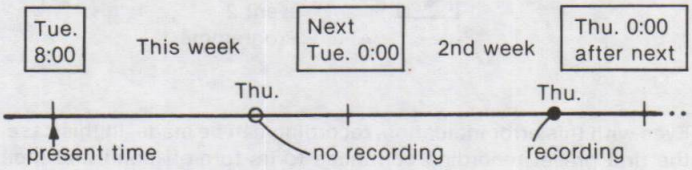


To record an event more than seven days ahead

Day indication more than seven days ahead is: [1], [2], ... [7].
Press the NEXT STEP button when the corresponding day indication is blinking.

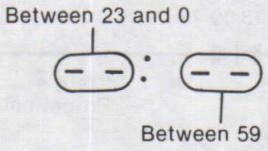
NOTE: Be sure that the next week begins at 0:00 seven days from the present day at whatever the present time is.

Ex.



To record to the end of the tape

Set the turn-off time to a time after the tape will reach its end or to "––:––". To exhibit "––:––", press + or – SELECT button.



- If you set the turn-off time to "––:––", the tape will be rewound to its beginning when the recording is finished, and after about 1 second the recorder will be turned off.

If the tape reaches the end during the timer recording

The recording stops and the tape will be rewound to the beginning and after about 1 second, the recorder will be turned off.

When the timer recording ends

The unit will be turned off automatically after about 30 seconds.

To stop the actual timer recording

Press the TIMER REC button so that the TIMER lamp goes off. The unit will be turned off automatically after about a second.

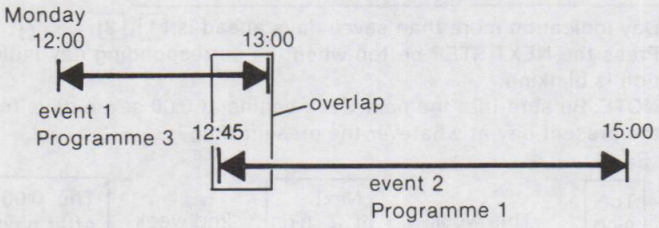
To begin recording manually and end it by the timer

Set the turn-on time earlier than the present time and the turn-off time to the desired time. Begin recording by pressing the TIMER REC button. The recording will end at the preset time.

ERROR INDICATIONS

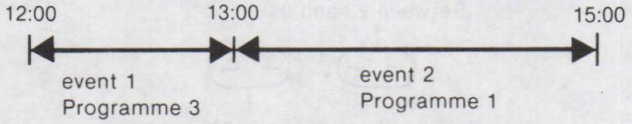
If the ● and ○ indications blink alternately and the event number also blinks when the TIMER REC button is pressed.....
It means that the setting of these events overlap. Check the settings and eliminate the overlap.

Example:
Timer setting



Even with this error indication, recording can be made. In this case, the first preset recording continues to its turn-off point and then the next recording begins.

Realized recording



● If the turn-on time of more than 2 events is the same, recording of the event having the lowest number will be made.

If the "--:--" indication blinks when the TIMER REC button is pressed .....
Check the following points:
● Did you insert a cassette into the recorder?
● Does the cassette inserted have a safety tab on the bottom?
● Make sure that the tape is not at its end.

After correcting the above points, press any timer setting button or ON/STANDBY button, then set the timer and press the TIMER REC button again.
Timer-activated recording cannot be activated if the TIMER lamp does not light.

TO CHECK THE TIMER SETTING

If the TIMER lamp lights up .....
Press the TIMER SET button. Each time you press the button, the indication will change as follows:
Example (Events 1, 2, and 5 have been preset.)

turn-on day and time of Event 1 → turn-off time →
turn-on day and time of Event 2 → turn-off time →
turn-on day and time of Event 5 → turn-off time → present time

● During actual timer recording, only the turn-off time of the event being recorded can be checked.
● To obtain a present time during the checking procedure, press the NEXT STEP button when a turn-off time is displayed.

If the TIMER lamp does not light up .....
To check all events, press the TIMER SET button. From the lowest vacant event number, all nine events are displayed in sequence with both turn-on and -off days and times, advancing one event each time you press the button twice. After the nine events have been displayed, the present time is again displayed.
To check a particualr event, press the TIMER SET button and then press the + or − button to display the desired event number. To check the turn-off time, press the TIMER SET button again.
● To obtain a present time during the checking procedure, turn the recorder off.

TO CLEAR THE TIMER SETTING

The memory of an event will be automatically erased when the recording of that event is finished. Settings for everyday and every week (Event 9) will not be erased, of course. If you want to skip the timer recording preset for everyday or every week temporarily, press the TIMER REC button so that the lamp goes off. To reactivate the timer standby mode of that event, press the TIMER REC button again.

If you want to erase the memory of an event:
1. Press the TIMER SET button and then the + or − button to display the event to be erased.
2. Press the CLEAR button. This event will be erased from the memory.
3. To display a present time, turn the unit off.

ADVANCED OPERATION
TO OBTAIN VARIABLE SPEED PLAYBACK PICTURE

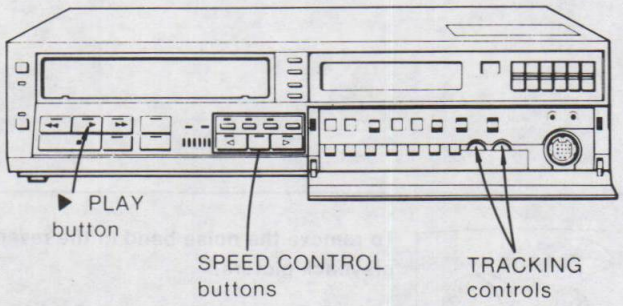
With this video cassette recorder, you can obtain still, frame-by-frame, slow motion, double speed or high speed playback picture in both forward and reverse direction (for double speed playback, forward direction only).

For example...

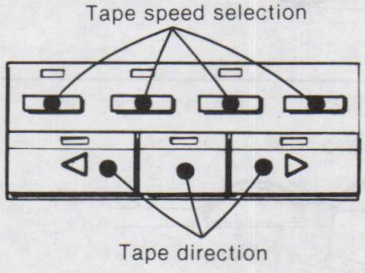
To closely inspect a particular frame→STILL PICTURE
To study your golf or tennis form→FRAME-BY-FRAME PICTURE
To watch a football play slowly unfold→SLOW-MOTION PICTURE
To quickly review a programme→DOUBLE SPEED PICTURE
To visually search for a particular point→PICTURE SEARCH

SPEED CONTROL

For still, frame-by-frame, slow motion and normal speed playback in both forward and reverse direction, use the "SPEED CONTROL" function buttons.



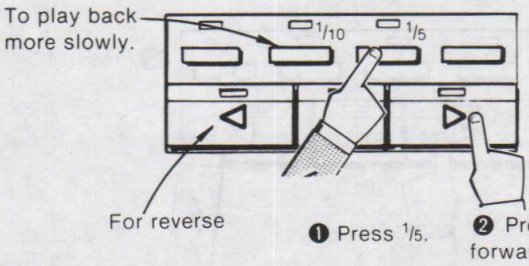
To enter the speed control mode, first press the ▶ PLAY button. Then select the playback speed and tape direction



Notes

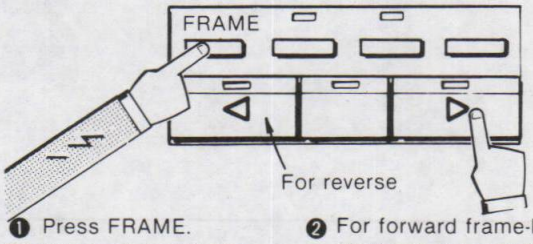
- The audio cannot be monitored in the speed control mode.
- To resume normal playback when the recorder is in the speed control mode, press the ▶ PLAY button.

Slow motion



- To stop the motion, press the STILL button.

Frame-by-frame playback



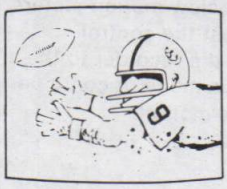
❶ Press FRAME. Picture motion will stop.

❷ For forward frame-by-frame playback, repeatedly press and release the ▷ button.

- If you keep the ▷ or ◁ button depressed, the picture will advance continuously one frame every second.

Still picture

There are two ways to stop the motion of the picture.
1) Press the PAUSE button.
2) Press the FRAME and STILL buttons.

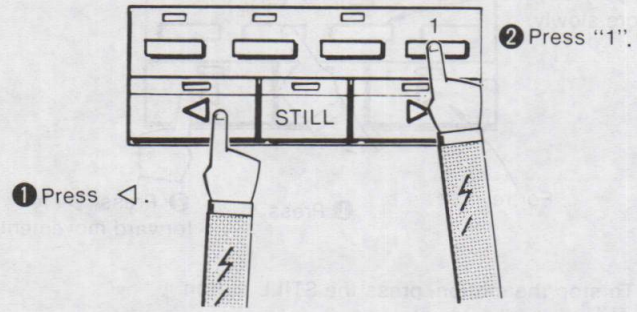


If a vertical jitter appears in the still, frame-by-frame or slow motion picture.

Obtain a still picture and adjust the TV VERT LOCK control at the rear of the recorder for the best possible picture. Then return the recorder to the previous mode.

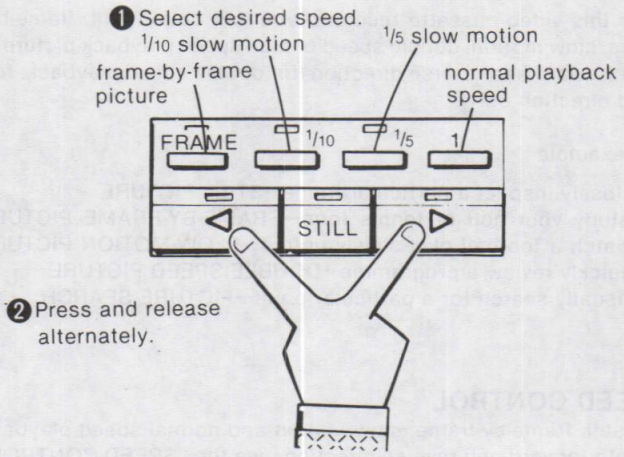
- Once you adjust this control, you do not have to adjust it again unless you change the connected TV receiver.

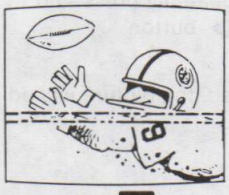
Reverse playback



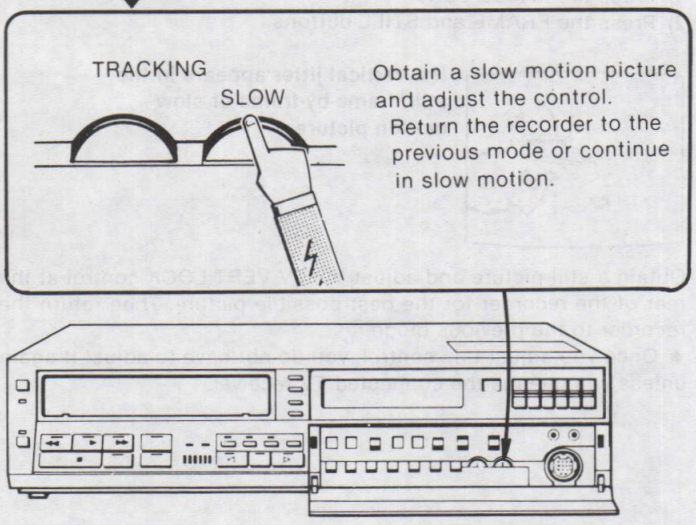
● For forward playback, press the ▷ button. The audio cannot be heard.

Back and forth playback

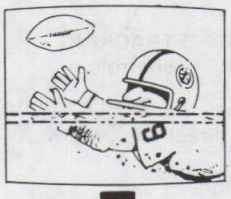




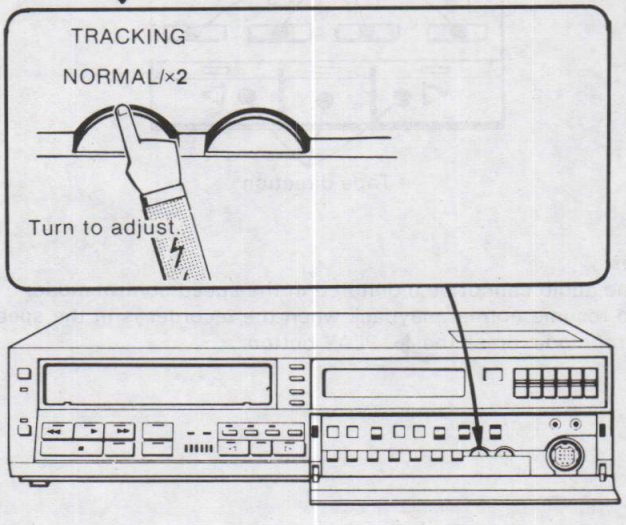
To remove the noise band in the still, frame-by-frame or slow motion picture.


TRACKING
SLOW
Obtain a slow motion picture and adjust the control.
Return the recorder to the previous mode or continue in slow motion.

● Return the control to its original (centre) position after playback.



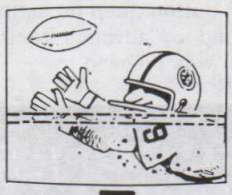
To remove the noise band in the reverse playback picture



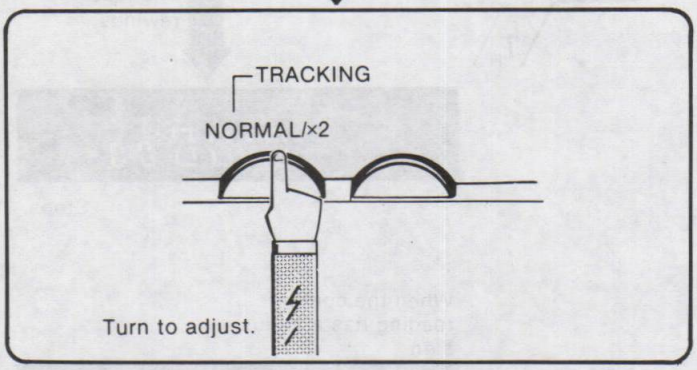
Return the control to its original (centre) position after the reverse normal speed viewing.

DOUBLE SPEED PLAYBACK

Press the ×2 button to view the picture at twice the normal speed. You can change the tape speed directly to slow motion or frame-by-frame advance or reverse the tape direction by selecting the tape speed with the FRAME, 1/10, 1/5 or 1 buttons and then by pressing the ▷ or ◁ button.



To remove the noise band in the double speed picture

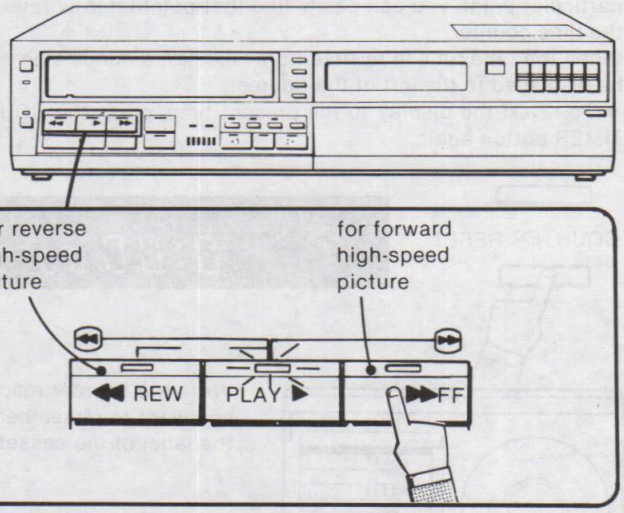


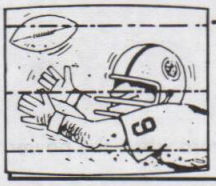
Return the control to its original (centre) position after the double speed viewing.

PICTURE SEARCH

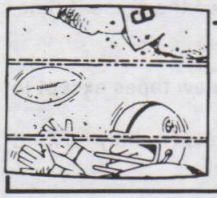
Press the ▶▶ FF or ◀◀ REW button during playback mode. While the button is depressed, a high-speed picture in the forward or reverse direction is displayed.
Release the button for previous mode.

- Picture search mode can also be obtained directly from the frame-by-frame, slow-motion double speed or reverse playback mode.





Streaks will appear in the picture search mode.



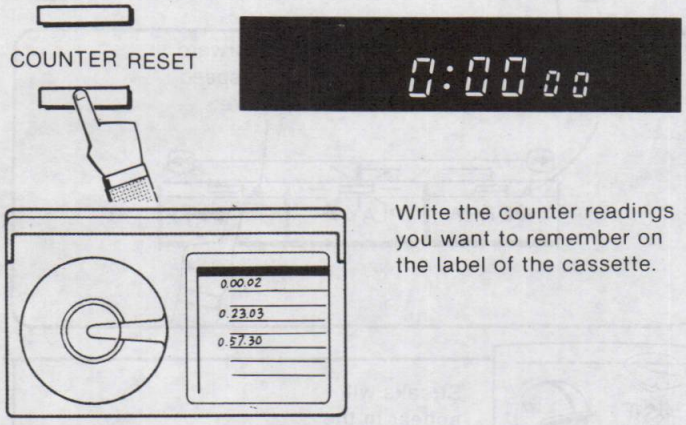
If the picture rolls vertically, adjust the vertical hold control on the TV.

- If you press and release the ▶▶ FF or ◀◀ REW button repeatedly in a short time, the protection circuit may be activated and the tape will stop.

TO LOCATE A PARTICULAR SCENE

TO REFERENCE A RECORDED PROGRAMME NUMERICALLY→ TIME COUNTER

When the COUNTER/TIMER button is pressed once, the display works as a time counter indicating how much the tape has advanced at normal speed in hours, minutes and seconds.
Press the COUNTER RESET button to set the counter to "0:00$_{00}$" before recording or playback. By noting the counter reading at a particular point, you can easily find that point later by referring to the time counter.
When the tape runs in reverse from "0:00$_{00}$", a minus sign "−" will be displayed to the left of the figures.
● To revert the display to the present time, press the COUNTER/TIMER button again.



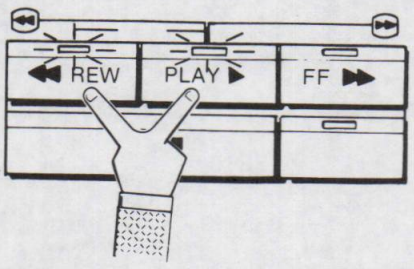
Write the counter readings you want to remember on the label of the cassette.

The counter reading is automatically reset to zero when the power is turned off
While the power is turned off, the display shows the present time, regardless of the COUNTER/TIMER selector.

The time counter does not operate with brand-new tapes except in the record mode
When an unrecorded tape is played back, advanced rapidly forward or rewound, the time counter does not operate.

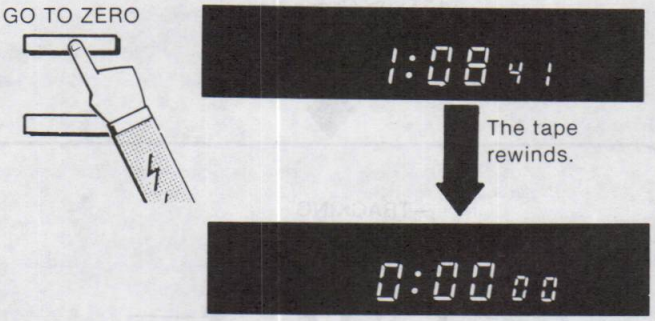
TO PLAY FROM THE BEGINNING OF THE TAPE AFTER REWINDING → AUTO PLAY

Press the ▶ PLAY button and ◀◀ REW button simultaneously while rewinding or in the stop mode. The PLAY and REW lamps blink alternately during rewinding.
After the tape is completely rewound, it will be automatically played back.

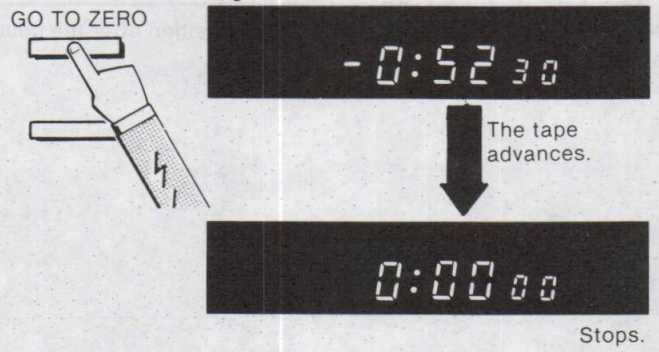


TO RETURN TO A PRE-REGISTERED POINT→GO TO ZERO

Press the COUNTER/TIMER button to display the time counter, then press the COUNTER RESET button at the point you later want to locate. When the recording or playback is finished, stop the tape by pressing the ■ STOP button, then press the GO TO ZERO button. The tape will rewind or advance to the point where the COUNTER RESET button was pressed.



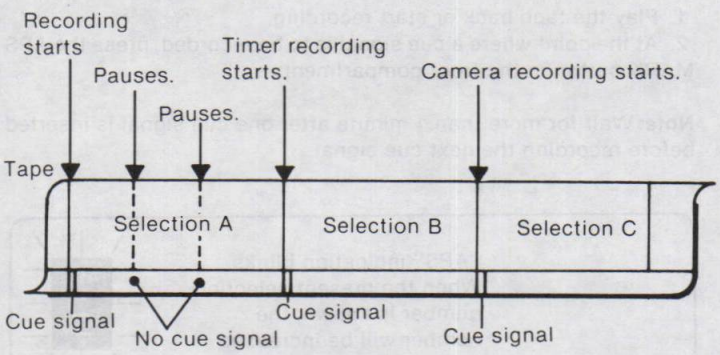
When the counter reading has a minus sign



● The tape may stop several seconds before or after 0:00$_{00}$.
● Always display the time counter by pressing the COUNTER/TIMER button to activate the GO TO ZERO function.

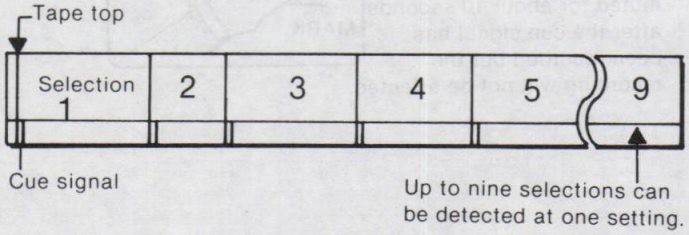
TO PLAY FROM THE START OF A DESIRED SELECTION→AUTO PROGRAMME SEARCH (APS)

The APS function operates by...
detecting the cue signals which are automatically recorded on the tape when the ● REC button is pressed or when timer recording begins.

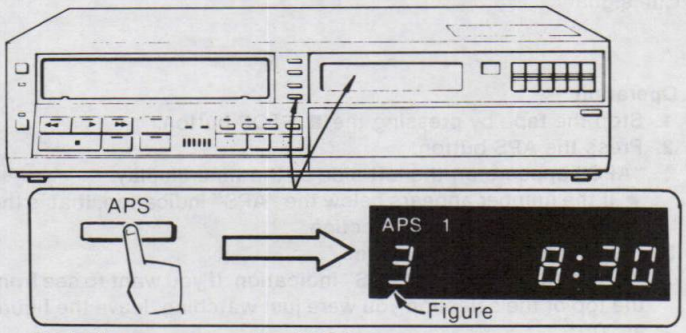


Notes
- Too short selection cannot be detected as one selection. There must be at least 30 seconds of tape at normal playback speed between cue signals.
- The APS function operates with any tape recorded on a machine with an APS function, such as the Sony SL-C7 series recorders.

How to actuate the mechanism
You number each selection on the tape from the beginning in sequence and find your desired selection by designating the number.

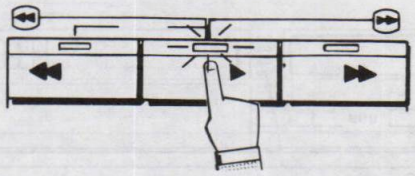


Operation
1. Stop the tape by pressing the ■ STOP button.
2. Press the APS button.
   "APS" appears on the left side of the time display.
   - If the number appears below the "APS" indication, that is the number of the present selection.
3. Press the APS button again.
   "0" appears below the "APS" indication. Press the APS button serveral times until the number of your desired selection appears.



Each time you press the APS button, the number in the time display will increase by 1, up to "9". If you press the button when "9" is displayed, "9" will disappear and the index function will not operate.

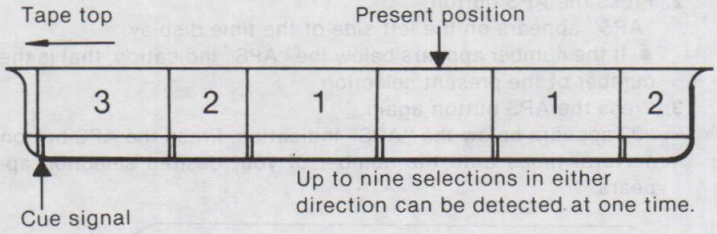
4. Press the PLAY button.



The recorder will search for the starting point of your desired selection in either of the rewind or fast forward mode. When located, playback of the programme will start automatically.

How can you know what the present selection number is?
When you rewind the tape to the tape top or proceed with the APS function, the present selection number will be displayed below the APS indication on the time display when the APS button is pressed once.
The recorder will hold the selection numbers until the cassette is removed, the power is turned off, or playback in slow motion is actuated.

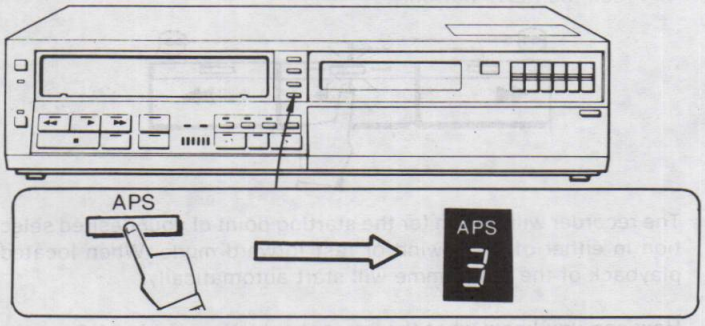
You can also search for a desired selection, which has been numbered in sequence, from the present position, by pressing the APS button.



Operation

1. Stop the tape by pressing the ■ STOP button.
2. Press the APS button.
   "APS" appears on the left side of the time display.
   ● If the number appears below the "APS" indication, that is the number of the present selection.
3. Press the APS button again.
   "0" appears below the "APS" indication. If you want to see from the top of the selection you were just watching, leave the figure at "0".
4. Press the APS button several times until the number of the selection you want to go back or forth to appear.

   For example, if you want to see the third selection ahead of one you were watching, press the APS button three times so that the figure "3" appears.



5. Press the ▶▶ FF button when locating a selection ahead, such as in case of above example. When locating a selection behind, press the ◀◀ REW button.

The recorder will search for the starting point of your desired selection in either the fast forward or rewind mode. When located, playback of the selection will start automatically.

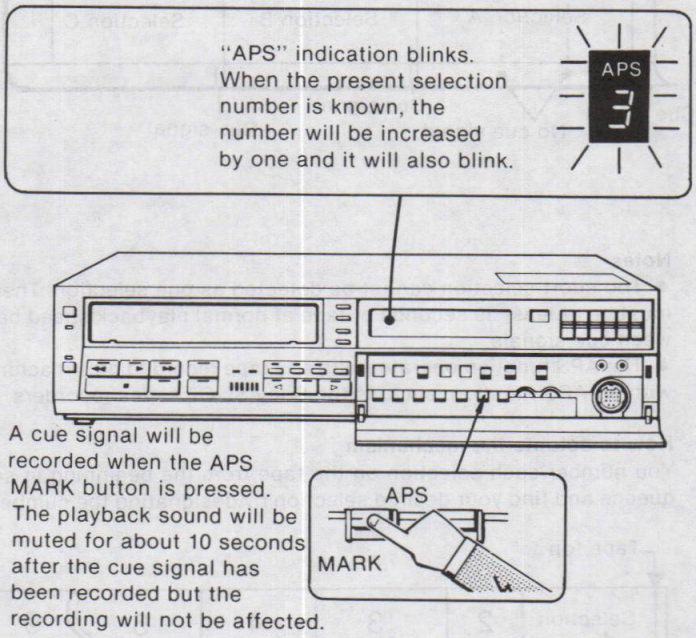
To insert a cue signal on a recorded tape

The cue signal is automatically recorded on the tape when the ● REC button is pressed or when timer recording begins. If two selections have been recorded without interruption, no cue signal will be recorded between the selections. Consequently, beginning of the second selection cannot be located. In this case, you can insert a cue signal.

Also during recording, you can insert a cue signal at any point on the tape so that you can easily find that point later.

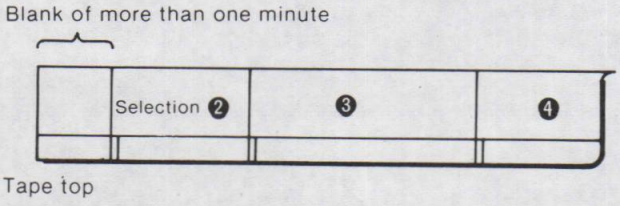
1. Play the tape back or start recording.
2. At the point where a cue signal is to be recorded, press the APS MARK button in the front compartment.

Note: Wait for more than 1 minute after one cue signal is inserted before recording the next cue signal.


"APS" indication blinks.
When the present selection number is known, the number will be increased by one and it will also blink.
APS
3
A cue signal will be recorded when the APS MARK button is pressed. The playback sound will be muted for about 10 seconds after the cue signal has been recorded but the recording will not be affected.
APS
MARK

When the desired selection cannot be played back with the APS function, check the following:

● Is there a blank space of over one minute at the very beginning of the tape? If so, the first selection will be counted as selection number two.

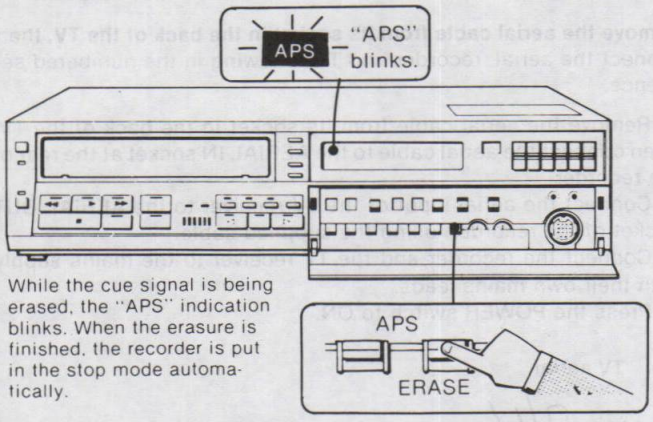


● Is there a selection of less than one minute? Such a selection may not be counted as one selection.

● Have you performed the APS operation within one minute before or after a cue signal? In this case, the first cue signal to be detected may not be counted.

To erase a cue signal

1. Stop the tape by pressing the ■ STOP button.
2. Proceed with the APS operation to search for the cue signal you want to erase.
   When the tape reaches the point where the cue signal you want to erase is located, playback will begin.
3. Press (within about 20 seconds) the APS ERASE button behind the front compartment while the APS indication and the selection number are displayed on the left side of the time display.



While the cue signal is being erased, the "APS" indication blinks. When the erasure is finished, the recorder is put in the stop mode automatically.

● The cue signal will not be erased if you press the APS ERASE button after the APS indication on the time display disappears.

HOW TO RECORD WITH SMOOTHER TRANSITIONS BETWEEN SCENES

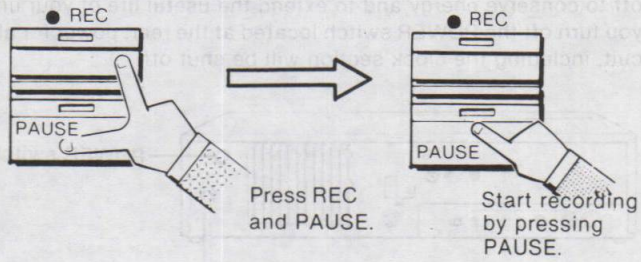
For a smooth transition between scenes, always start recording when the recorder is in the recording pause mode. Even if you use the ■ STOP button to stop recording or if you turn off the recorder, picture transition will be smoother if you start recording after first setting the recorder to the recording pause mode.

When recording with a camera

The recorder will automatically enter the recording pause mode when the REC button is pressed so that the transition between scenes will be smooth.

When recording TV programmes

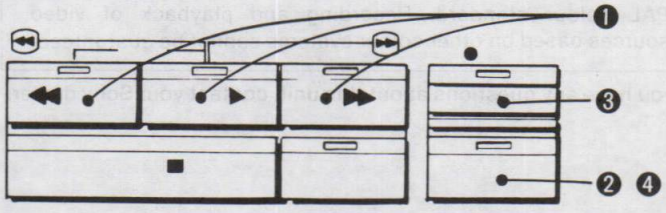
Press the PAUSE button then the REC button to set the recorder in the recording pause mode. When you want to start recording, press the PAUSE button again. Recording will start and the picture transition will be smooth.



TO START RECORDING FROM A PARTICULAR POINT

You can start recording from any desired point by searching for that point using the picture search (→page 17) and speed control (→page 15) functions.

1. Search for the point where you wish to start recording on the tape using the picture search function.
2. Stop the tape at the point where you wish to start recording the next scene by pressing the STILL button. You will find it convenient to search for the point precisely using the slow motion playback.
3. Press the REC button. The recorder will enter the record pause mode.
4. Press the PAUSE button. Recording will start.



Why is picture transition smoother when recording is started from the recording pause mode?

When the recorder enters the recording pause mode, the tape will be automatically rewound for about 0.5 second, then stop. When the pause mode is released to start recording, the tape runs in the playback mode to synchronize the segment to be recorded next with the last segment recorded. When the tape reaches the point where the recorder entered the recording pause mode, recording starts.

BEFORE OPERATING
PRECAUTIONS

On safety

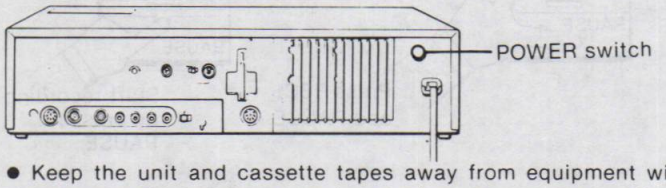
- This unit operates on 110 – 240 V ac, 50/60 Hz.
- Should any solid object or liquid fall into the cabinet, turn off the unit and have it checked by qualified personnel before operating it any further.

On installation

- Allow adequate air circulation to prevent internal heat build-up. Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation grille.
- Do not install the unit near heat sources such as radiators or air ducts or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.
- The unit is designed for operation in a horizontal position. Do not install it in an inclined position.
- Do not install the unit near an AM receiver, since a noise may be heard when listening to the AM programme.

On operation

- When the unit is not to be used for a long period, turn the power off to conserve energy and to extend the useful life of your unit. If you turn off the POWER switch located at the rear, power for all circuit, including the clock section will be shut off.



- Keep the unit and cassette tapes away from equipment with strong magnets, as for example, a microwave oven or a large loudspeaker.
- Remove and store video cassettes after recording or playback.

On cleaning

Clean the cabinet, panel and controls with a dry soft cloth. Do not use a moistened cloth or any type of solvent, such as alcohol or benzine, which might damage the finish.

On repacking

Do not throw away the carton and packing materials. They make an ideal container in which to transport the unit. When shipping the unit to another location, repack it as illustrated on the carton.

On colour broadcasting systems

This machine is designed to record and play back using the PAL colour standard. Recording and playback of video sources based on other colour systems cannot be guaranteed.

If you have any questions about this unit, contact your Sony dealer.

PREPARATION
CONNECTIONS

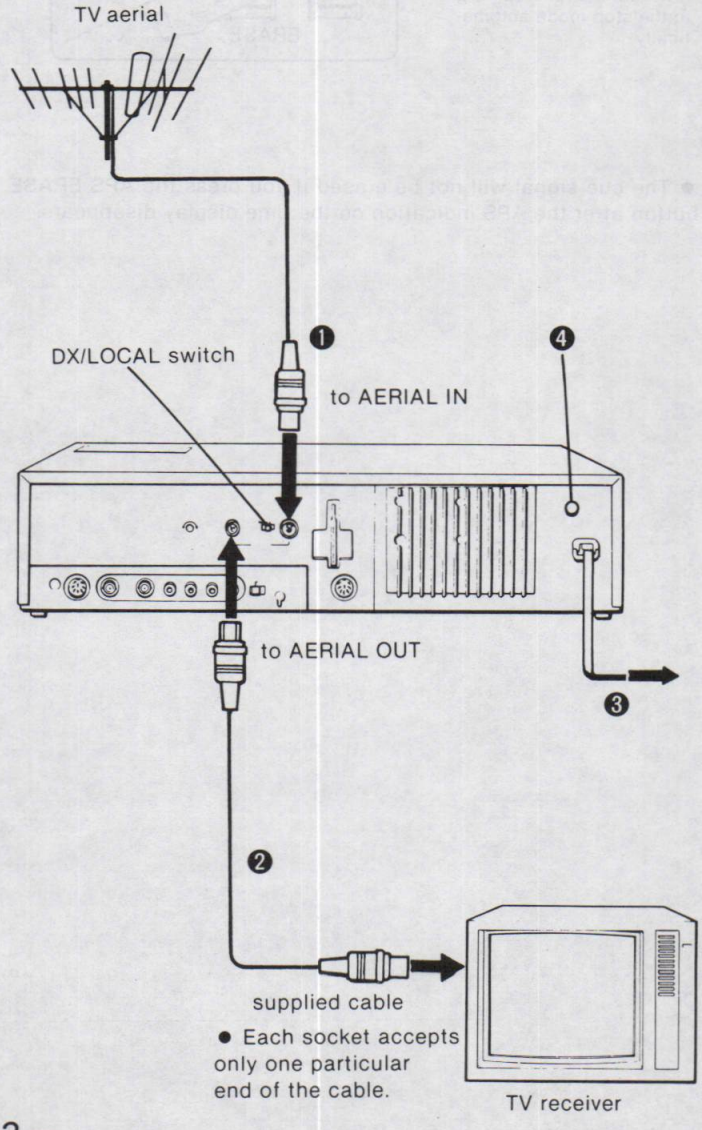
Cautions

- Unplug the TV from the mains outlet before making the following connections.
- Reconnect the mains lead after all the other connections of the video cassette recorder and the TV have been completed.
- Make sure the connections are secure. A loose connection may cause a noisy picture.

CONNECTING TO THE TV

Remove the aerial cable from its socket in the back of the TV, then connect the aerial, recorder and TV following in the numbered sequence.

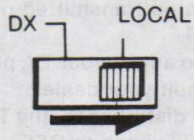
1. Remove the aerial cable from its socket in the back of the TV. Then connect the aerial cable to the AERIAL IN socket at the rear of the recorder.
2. Connect the aerial input of the TV receiver to the AERIAL OUT socket of the recorder, using the supplied cable.
3. Connect the recorder and the TV receiver to the mains supply with their own mains leads.
4. Press the POWER switch to ON.



Now the recorder is set up to intercept all signals from the aerial on their way to the TV receiver. The recorder then passes on the signals to the TV. This is why you can record a programme while it is being shown on the TV, or while the TV is showing another programme, or even when the TV is turned off.

Notice for customers in a strong signal area

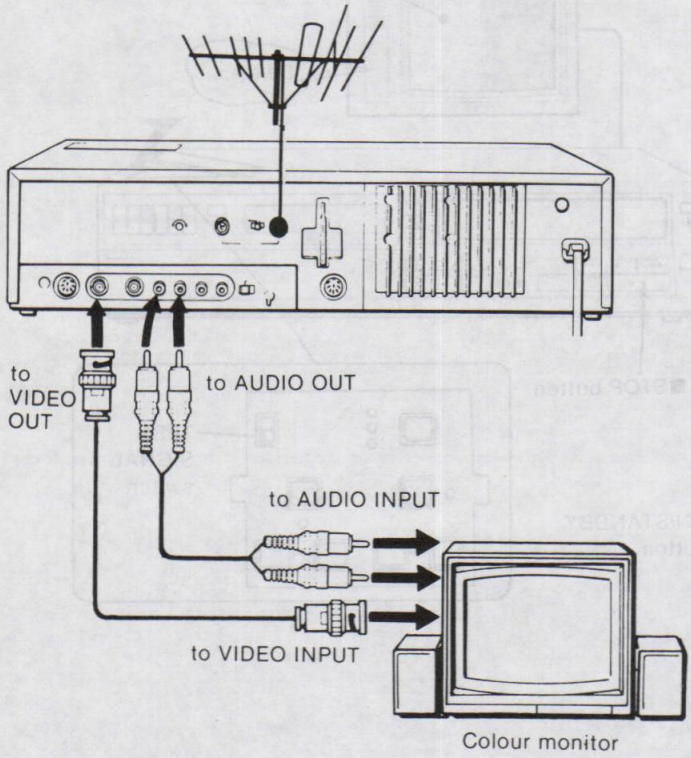
The recorder has a booster to assure stable TV reception. However, in areas near TV stations, where the TV signal is very strong, the picture may be affected by the booster. If this happens, set the DX/LOCAL switch on the rear panel to LOCAL.



CONNECTING A COLOUR MONITOR

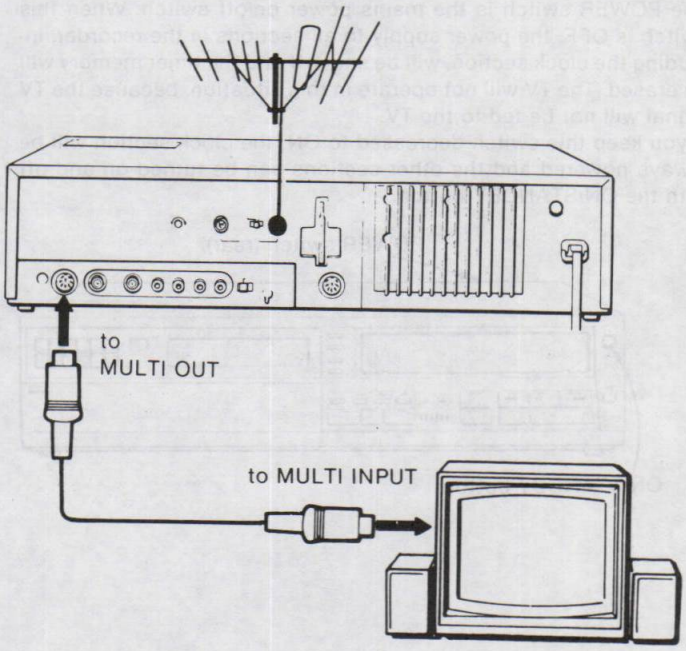
To obtain a higher-quality picture, connect the unit to a colour monitor, such as the Sony KX-20PS1, instead of a conventional TV receiver. The aerial should be connected to the recorder in the same way as a conventional TV.

Using the audio and video cables



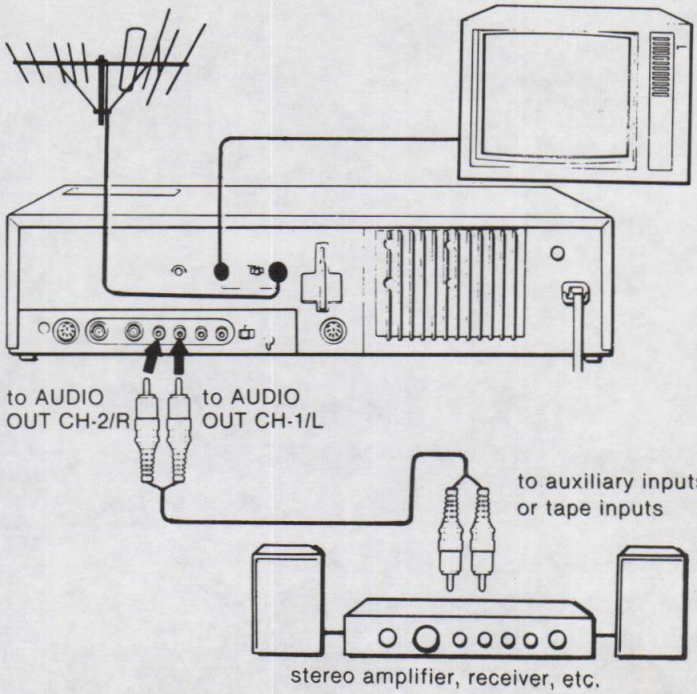
Using a multi cable

The video, audio and control signal connection to the Sony KX-20PS1 colour monitor can be made by the single VK-2D multi cable (optional).



CONNECTING TO AN AUDIO SYSTEM

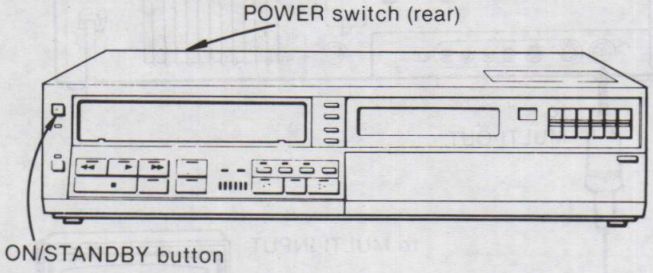
You can enjoy the stereo sound of the video tapes through your audio system even if your TV receiver is a conventional type.



TURNING THE RECORDER ON AND OFF

Normally, keep the POWER switch at the rear panel depressed to ON and turn the recorder on and off with the ON/STANDBY button. The POWER switch is the mains power on/off switch. When this switch is OFF, the power supply to all sections in the recorder, including the clock section, will be shut off and the timer memory will be erased. The TV will not operate in this situation, because the TV signal will not be fed to the TV.

If you keep this switch depressed to ON, the clock section will be always powered and the other sections can be turned on and off with the ON/STANDBY button.



ADJUSTING THE TV

One of the television channels must be adjusted to receive the signal from the recorder.

1. After making the connections, press the ON/STANDBY button.
2. Make sure that the recorder is in the stop mode.
3. Set the TEST SIGNAL switch in the tuning compartment of the recorder to ON.
4. Turn on the TV and select a channel which is not being used to receive a TV station. Tune the channel until you see a clear black and white pattern on the TV screen and you hear a continuous tone. This is the recorder's test signal.

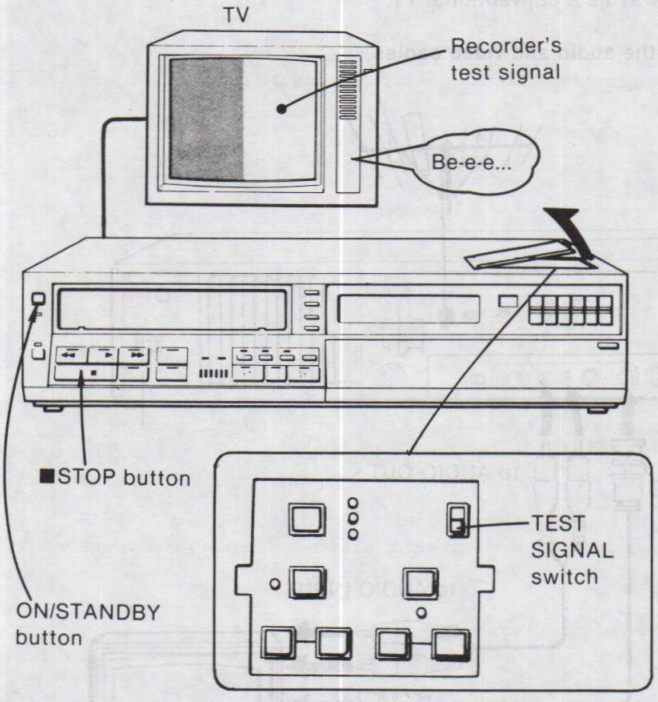
● Note that the test signal is transmitted on a channel between UHF channels E30 and E39.

— If you are not sure how to adjust your TV, please refer to the TV's instruction manual or consult your dealer.

If the test picture is free of disturbance, the TV adjustment is complete. Set the TEST SIGNAL switch to OFF.

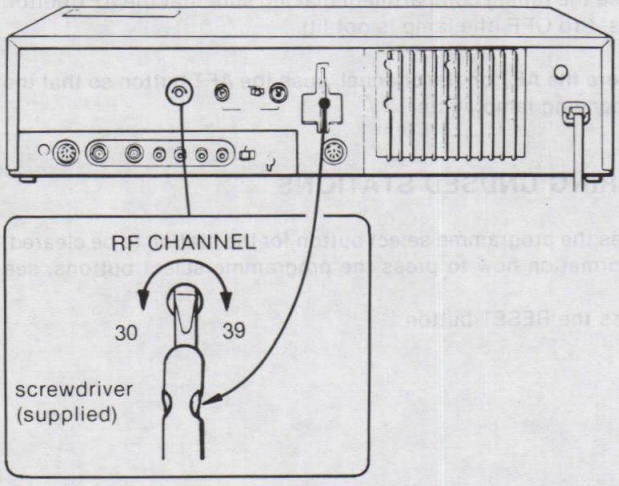
If the test picture is not free of disturbance, proceed with the adjustment on page 25.

> Whenever you use the video recorder, you should set the TV to the channel selected in this adjustment.



If the test picture is not free of disturbance

1. Reset the TEST SIGNAL switch to OFF.
2. Adjust the channel of the TV to a channel between UHF channels E30 and E39 with the tuning control or the fine tuning control on the TV, so that the TV screen shows no picture and so that a steady rustling sound or no sound is heard.
3. Set the TEST SIGNAL switch to ON again.
4. Slowly turn the RF CHANNEL screw on the back of the recorder with the supplied screwdriver, until you see an undistorted test picture on the TV screen.
5. Now the TV adjustment is complete. Reset the TEST SIGNAL switch to OFF.



TV STATIONS PRESETTING

TO PRESET ALL THE RECEIVABLE VHF AND UHF STATIONS

The receivable TV stations, up to 30, in your area can be preset to the programme select buttons automatically in order from the TV station with the lowest frequency to the station with the highest.

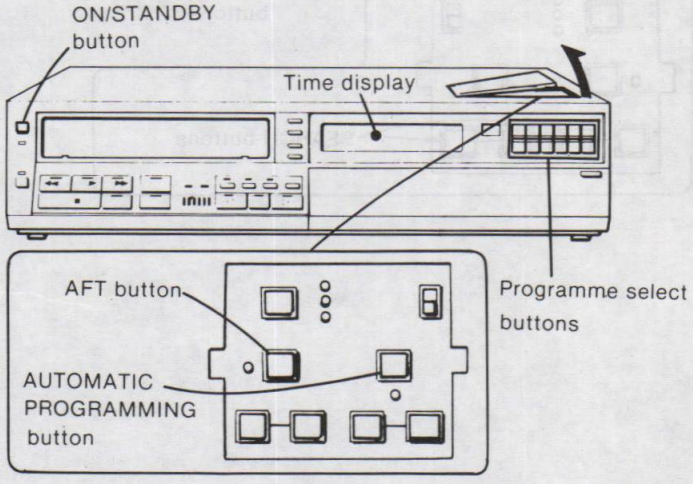
1. Turn on the recorder by pressing the ON/STANDBY button.
2. Set the INPUT SELECT switch to TUNER.
3. Open the lid of the tuning compartment and press the AUTOMATIC PROGRAMMING button. The PROG 1 will appear on the time display. The lamp associated with the AUTOMATIC PROGRAMMING button will begin flashing and all receivable stations will be tuned and memorized automatically on the programme select buttons from 1, up to 30 stations.

When the automatic programming is finished, the lamp stops blinking and the broadcast of the station memorized on the programme select button "1" will be displayed on the TV screen.

4. Check the results of the automatic programming referring to your local TV listings, by pressing the programme select buttons. For information how to press the programme select buttons, see page 9.

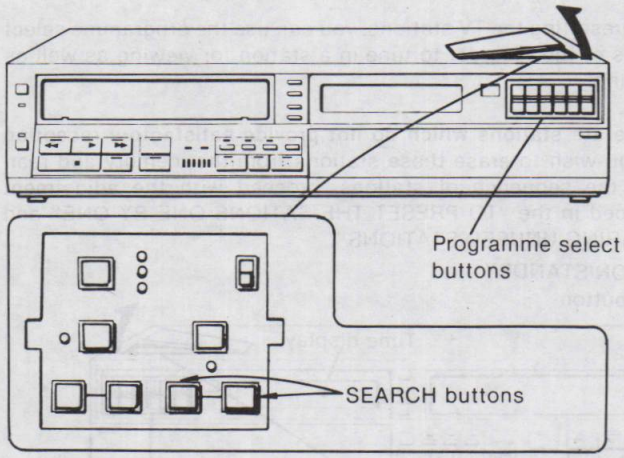
After presetting the TV stations, you can use the programme select buttons of the recorder to tune in a station for viewing as well as recording.

If there are stations which do not provide satisfactory reception and you wish to erase these stations from the memory and rearrange the sequence of stations, proceed with the adjustment described in the "TO PRESET THE SATIONS ONE BY ONE" and "CLEARING UNUSED STATIONS".



TO PRESET THE STATIONS ONE BY ONE

1. Turn on the recorder by pressing the ON/STANDBY button.
2. Set the INPUT SELECT switch to TUNER.
3. Press a programme select button for the station to be preset. For information how to press the programme select buttons, see page 9.
4. If no stations have been preset before, press the + SEARCH button. (Do not keep this button depressed.) The band indicating lamp will light up to show the tuning band of the stations.
If the TV stations have been preset already, the band indicating lamp will light up to show the present tuning band. Press the + SEARCH button to locate a station with higher freqeuncy and the – SEARCH button to locate a station with lower frequency.
The band indicating lamps will change to show the current tuning band.
When each station is received, the search will stop. Repeat pressing the + or – SEARCH button, referring to the picture on TV screen, until the desired station is received. The station is now set.
5. Repeat steps 3. and 4. until every station you want has been preset.



FINE TUNING

If the automatic tuning system does not give a perfect picture on a particular channel, fine tune that station manually.

1. Press the programme select button for the station to be fine tuned.
2. Keep the + or – FINE button depressed until a clear picture is obtained. (When either of the FINE buttons is pressed, the AFT on the selected station is deactivated and the AFT lamp goes off.)
If the picture quality gets worse, release the button and press the other one. Press the – and + buttons alternately until you have the best possible picture.
3. Close the tuning compartment making sure that the AFT button is still set to OFF (the lamp is not lit).

To restore the AFT on the channel, push the AFT button so that the corresponding lamp lights.

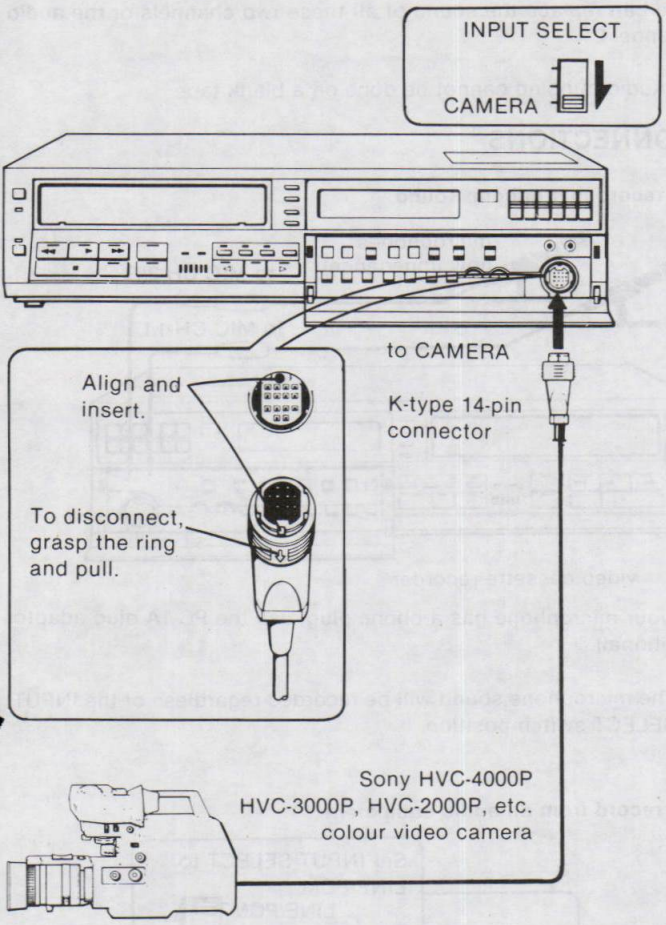
CLEARING UNUSED STATIONS

1. Press the programme select button for the station to be cleared. For information how to press the programme select buttons, see page 9.
2. Press the RESET button.

CAMERA RECORDING . . . To produce your own programmes

CONNECTIONS

- The camera must conform to CCIR PAL TV standards.



- When using a HVC-2000 or HVC-3000 series video camera, the sound from the microphone built into the camera is recorded on the channel 1. To monitor the sound from the built-in microphone, be sure to set the AUDIO PB/MONITOR switch to CH-1/L.

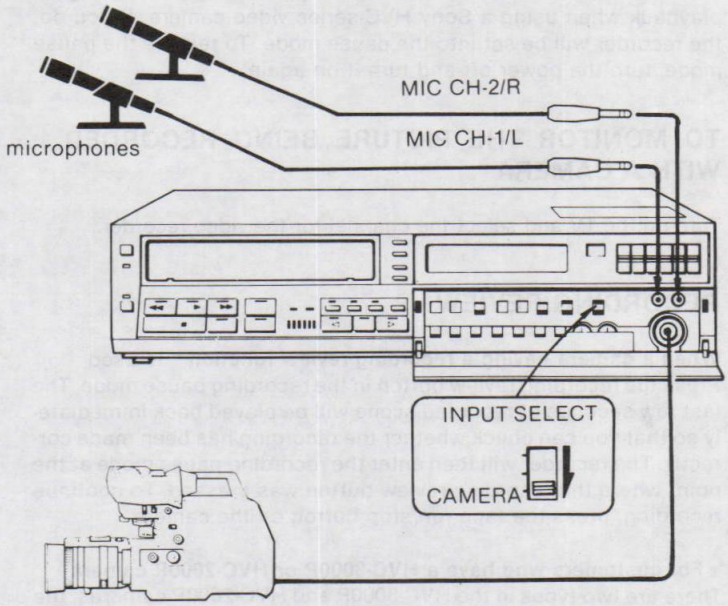
To connect a camera which is not equipped with a K-type 14-pin connector

Use an ac adaptor. Connect the video output of the ac adaptor to the VIDEO IN jack of the recorder and the audio output of the ac adaptor to the AUDIO IN CH-1/L jack or the MIC CH-1/L jack of the recorder depending on the audio output level of the ac adaptor. Set the INPUT SELECT switch to LINE/PCM.

Note

If you want to use a camera not recommended in this manual, make sure that the power requirement of the camera is DC 12V and power consumption is under 10W. Otherwise, the video cassette recorder will be damaged.

To record the sound from external microphones



- If the microphone has a phone plug, use a plug adaptor such as the Sony PC-1A (optional).

OPERATING PROCEDURE

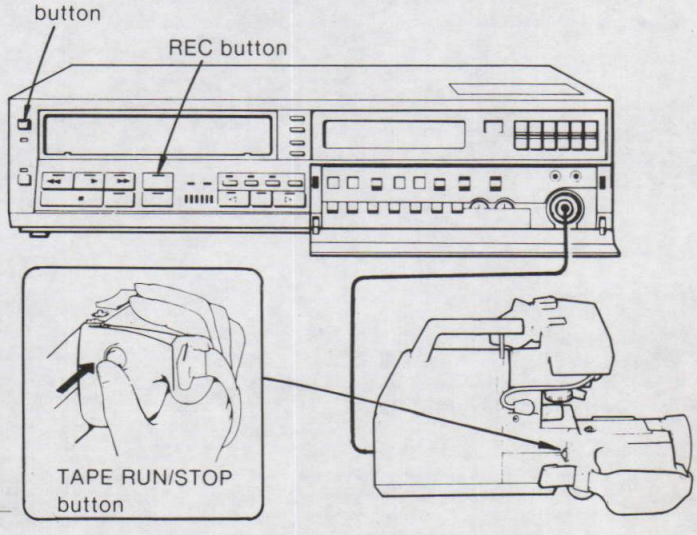
1. Turn on the recorder and insert a cassette.
   - "CA" appears on the right of the time display indicating that the INPUT SELECT switch is properly set to the CAMERA position. If the "CA" indication does not appear, set the INPUT SELECT switch to CAMERA.
2. Make necessary adjustment on the camera. For details, refer to the camera's instruction manual.
3. Press the REC button. The recorder will be set into the recording pause mode.
4. Press the TAPE RUN/STOP button on the camera. Recording will begin.

To momentarily stop recording, press the TAPE RUN/STOP button on the camera or the PAUSE button on the recorder. To restart the recording, press the same button again.

- The pause mode will be automatically released after about 8 minutes and the recorder will revert to the record mode.

To stop recording, press the STOP button.

When the tape reaches the end, the tape will be rewound.



NOTE
Do not change the INPUT SELECT switch during recording or playback when using a Sony HVC-series video camera. If you do, the recorder will be set into the pause mode. To release the pause mode, turn the power off and turn it on again.

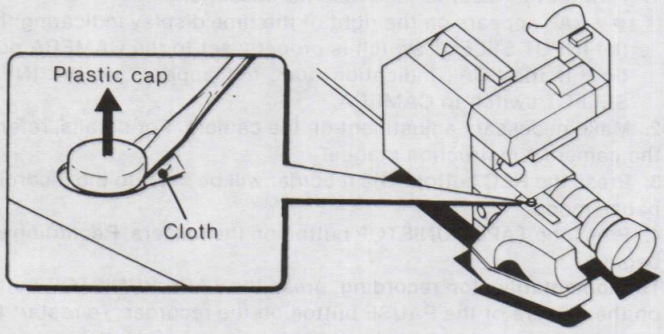
TO MONITOR THE PICTURE BEING RECORDED WITH A CAMERA

Turn on the TV and select the channel for the video recorder.

RECORDING REVIEW

When a camera having a recording review function* is used
Press the recording review button in the recording pause mode. The last few seconds of recorded scene will be played back immediately so that you can check whether the recording has been made correctly. The recorder will then enter the recording pause mode at the point where the recording review button was pressed. To continue recording, press the tape run/stop button on the camera.

***For customers who have a HVC-3000P or HVC-2000P camera**
There are two types in the HVC-3000P and HVC-2000P cameras: the one which has a recording review button and the one which does not.
The small projection located near the zoom button is a recording review button. If this button is covered with a plastic cap, carefully peel off the cover over the button with a screwdriver or similar object.



Caution:
Make sure that the plastic cap has not already been removed and inadvertently attempt to pry up the button itself.

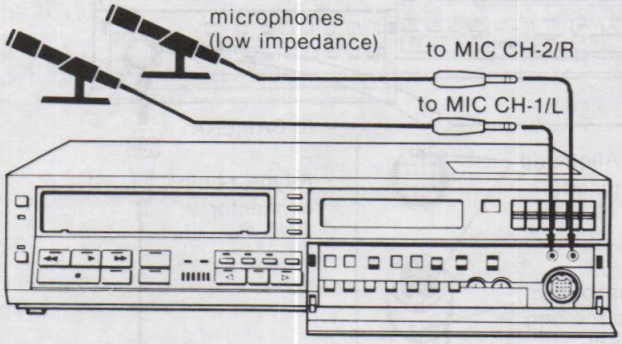
DUBBING AUDIO

You can dub in music or commentary on any recorded tape while watching the recorded video.
Audio is recorded on two channels on the tape: channel 1 and channel 2.
You can replace the sound of all these two channels or the audio channel 2.

- Audio dubbing cannot be done on a blank tape.

CONNECTIONS

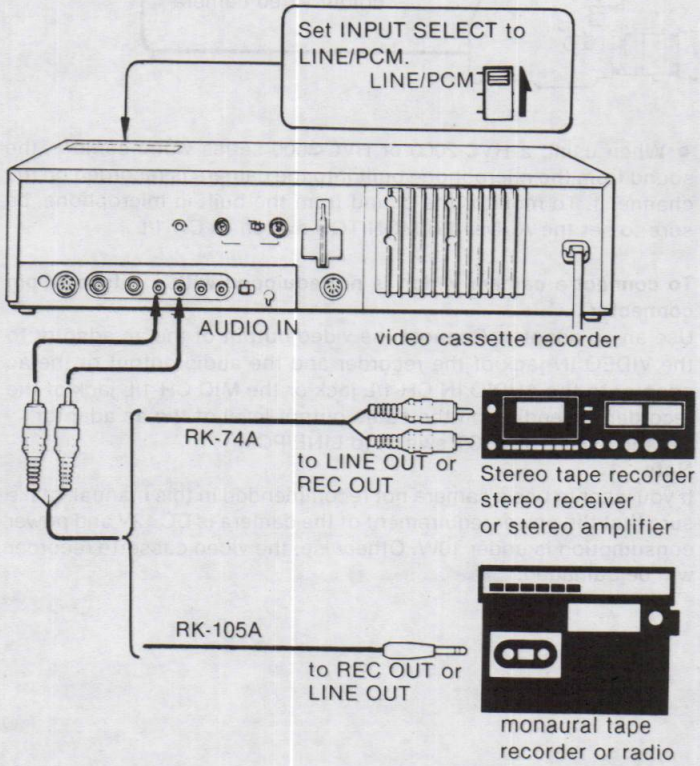
To record microphone sound



If your microphone has a phone plug, use the PC-1A plug adaptor (optional).

The microphone sound will be recorded regardless of the INPUT SELECT switch position.

To record from an audio equipment



HOW TO DUB

First, decide at which point on the tape you will start audio dubbing and make the necessary preparations for playing the audio source.

1. Turn the power of the recorder on and insert a cassette. Be sure that the cassette's safety tab has not been removed.

● When using source other than microphones make sure that "AU" appears on the time display indicating that the INPUT SELECT switch is set to LINE/PCM.

2. Press the ▶ PLAY button. Playback will begin.
3. Press the PAUSE button at the point where audio dubbing is to start.
4. Press the AUDIO DUB button.
   If you want to erase the previously recorded sound and completely replace, press the CH-1,2/L,R button.
   If you want to replace the sound of the audio channel 2 with new one, press the CH-2/R button.

The corresponding AUDIO DUB lamp(s) will light.

5. Press the PAUSE button again.

Audio dubbing starts.

6. Start playing the audio source—talking into the microphone, playing the tape recorder, etc.

To stop the tape momentarily during dubbing, press the PAUSE button.

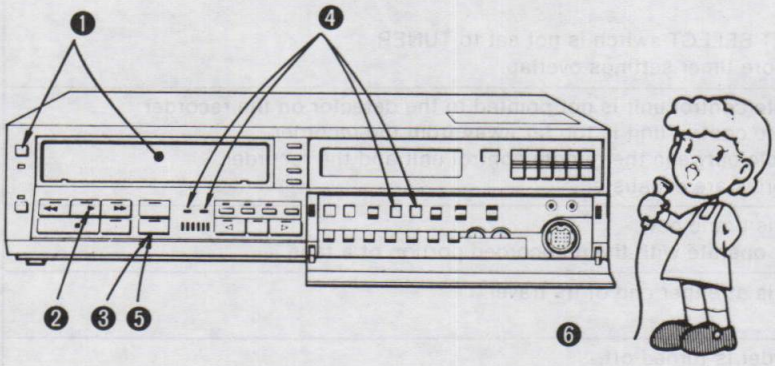
To stop dubbing, press the ■ STOP button.

If a whistle-like sound is heard during microphone recording

Stop pointing the microphone in the direction of the TV or turn the TV volume down.

To record from the beginning of the tape

Press the AUDIO DUB button. Audio recording and picture playback will start immediately.



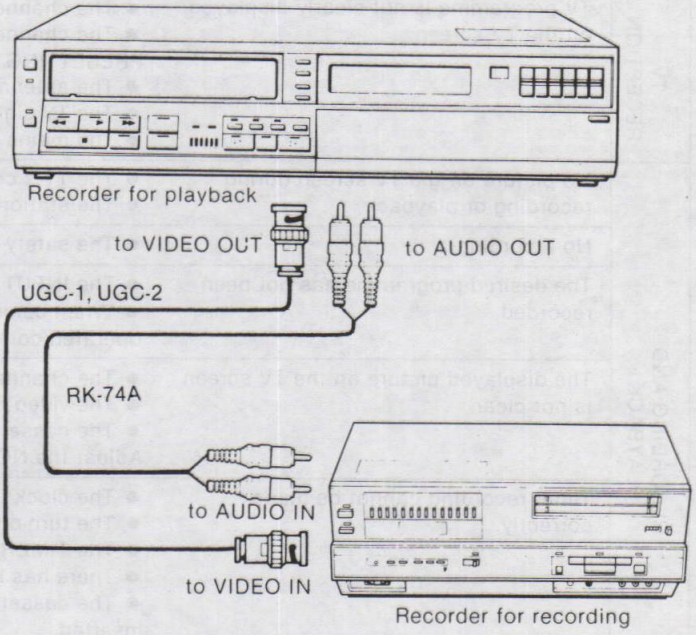
Note on the STEREO indicator

When playing back a tape recorded in stereo with this recorder, the STEREO indicator will not light, but the reproduced sound will be stereo.

TAPE COPY

To duplicate a tape, you will need two video recorders; one is to play back the original tape and the other is to record.

1. Connect the recorders as illustrated.
2. Turn on both recorders.
3. Insert the original cassette into the recoder for playback.
4. Insert a blank cassette into the recorder for recording.
5. Set the INPUT SELECT switch of the recorder for recording to LINE/PCM.
6. Set the recorder for playback into the playback mode.
7. Set the recorder for recording into the record mode.



TROUBLE CHECKS

If any diffculty should arise during operation, check through this list of symptoms and possible causes. Should the difficulty persist, unplug the unit and contact the dealer from whom this unit was purchased, or local Sony authorized dealer.

Before going through the check list below, first check to see whether the mains lead is connected firmly to a working outlet and whether the POWER switch and ON/STANDBY button are turned ON.

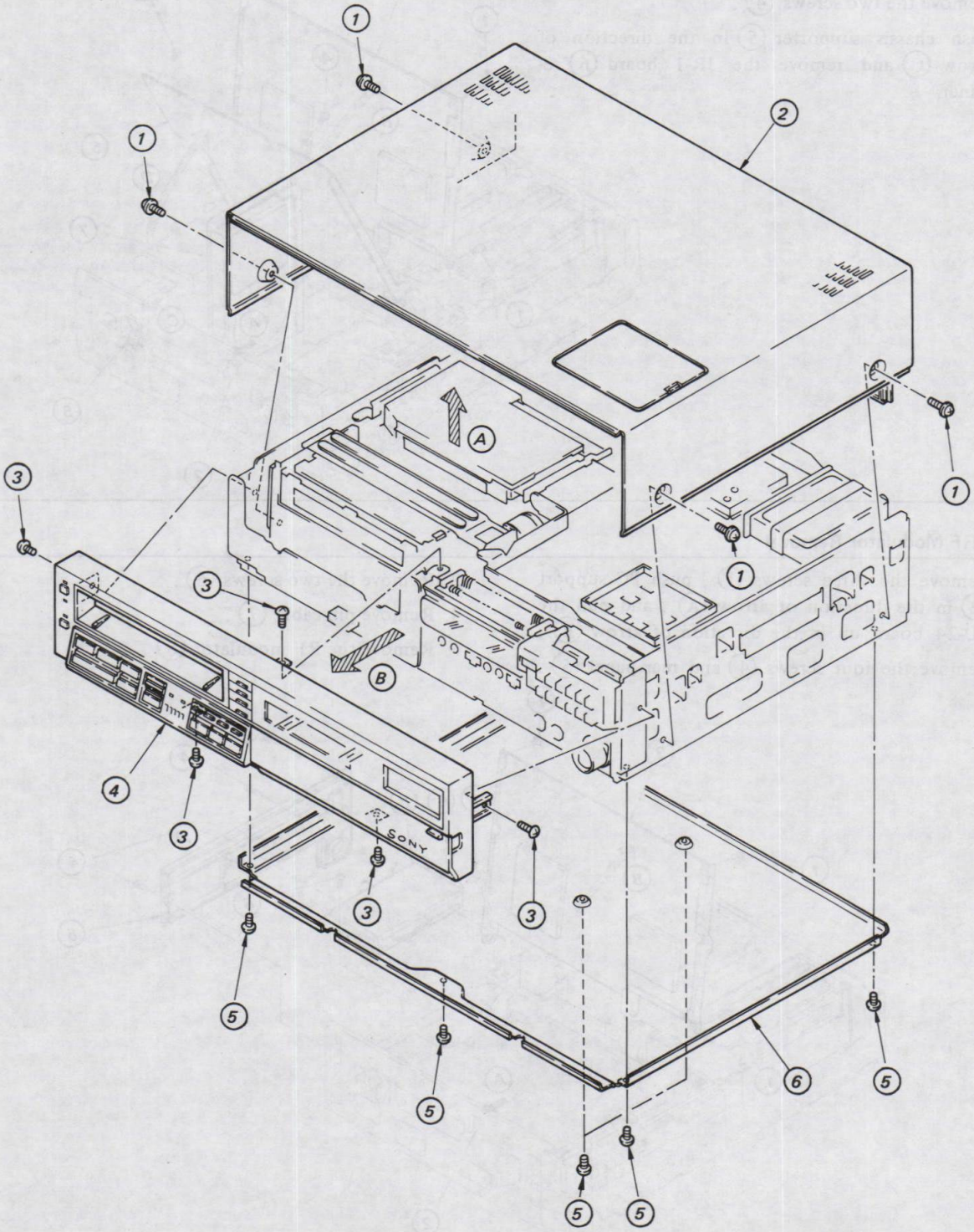
	Symptom	Possible causes and corrections
POWER	ON/STANDBY button does not function.	● The mains lead is disconnected or the POWER button is not pressed. ● The recorder is in the timer standby mode. Press the TIMER REC button so that the TIMER lamp goes off.
CLOCK AND TIMER	The clock has stopped at "0:00"	● There has been a power interruption. Reset the clock time and timer settings.
	Timer setting cannot be made.	● The clock time is not set
TV RECEPTION	TV programme is not clearly displayed on the TV screen.	● The channel for video recorder on the TV receiver is not correctly tuned. ● The channels on the recorder are not correctly preset. (See "TV STATION PRESETTING", page 6.) ● The antenna connections are not correct. ● The TV signal is weak. Adjust the direction of the antenna. ● The mains lead of the recorder is disconnected.
RECORDING AND PLAYBACK	No picture on the TV screen during recording or playback	● The TV's channel is not set to that preset for the video recorder. ● The station preset for the video recorder has not been fine-tuned.
	No recording	● The safety tab on the cassette has been removed.
	The desired programme has not been recorded.	● The INPUT SELECT switch has not been set correctly. ● When camera recording, the tape run/stop button on the camera has not been operated correctly.
	The displayed picture on the TV screen is not clear.	● The channel preset for the video recorder on the TV has not been fine-tuned. ● The video heads are contaminated. ● The cassette being played has been recorded on another video recorder. Adjust the NORMAL/×2 TRACKING control.
	Timer recording cannot be made correctly.	● The clock time is not set correctly. ● The turn-on day and the turn-on time have not been set correctly. ● The TIMER REC button has not been pressed. ● There has been a power interruption. ● The cassette inserted has had the tab removed or no cassette has been inserted. ● The INPUT SELECT switch is not set to TUNER. ● Two or more timer settings overlap.
REMOTE CONTROL	The recorder cannot be remotely controlled.	● The remote control unit is not pointed to the detector on the recorder. ● The remote control unit is too far away from the recorder. ● An obstacle between the remote control unit and the recorder. ● The batteries are exhausted.
OTHERS	The time counter does not operate even if the tape moves.	● The tape is brand-new. ● It will not operate with the unrecorded portion of a tape.
	The function buttons cannot be activated.	● The tape is at either end of its travel.
	Cassette cannot be inserted.	● The recorder is turned off. ● The cassette being inserted is reversed. ● Another cassette has already been inserted.
	The cassette cannot be ejected.	● The recorder is turned off. ● The tape is moving
	Audio dubbing cannot be made.	● The cassette inserted has had its safety tab removed. ● The tape to be dubbed is blank. ● When the AUDIO IN jacks are used, nothing should be connected to the MIC jacks and the INPUT SELECT switch should be set to LINE/PCM.
	The tape stops suddenly during operation.	● The safety device which protects the video cassette tape and recorder has activated. Reactivate the previous tape transport mode.
	The function buttons cannot be activated with the EJECT lamp lit, immediately after the cassette has been inserted into the recorder.	● The safety device has activated. Press the EJECT button to remove the cassette and re-insert the cassette.

SECTION 2
DISASSEMBLY (AND REPLACEMENT)

Note: Follow the disassembly procedure in the numerical order given.

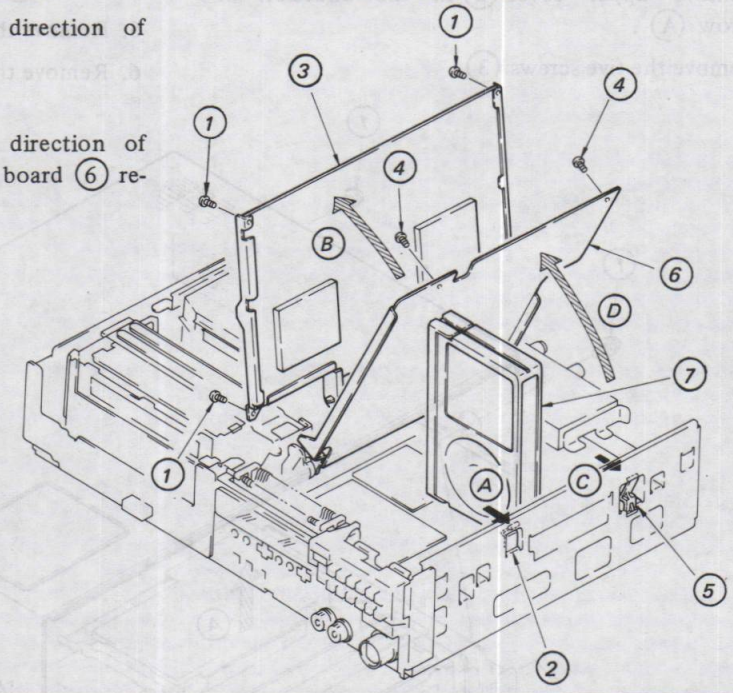
2-1. Cover Removal

1. Remove the four screws (1) .
2. Remove upper cover (2) in the direction of arrow (A) .
3. Remove the five screws (3) .
4. Remove front panel (4) in the direction of arrow (B) .
5. Remove the seven screws (5) .
6. Remove the bottom plate (6) .



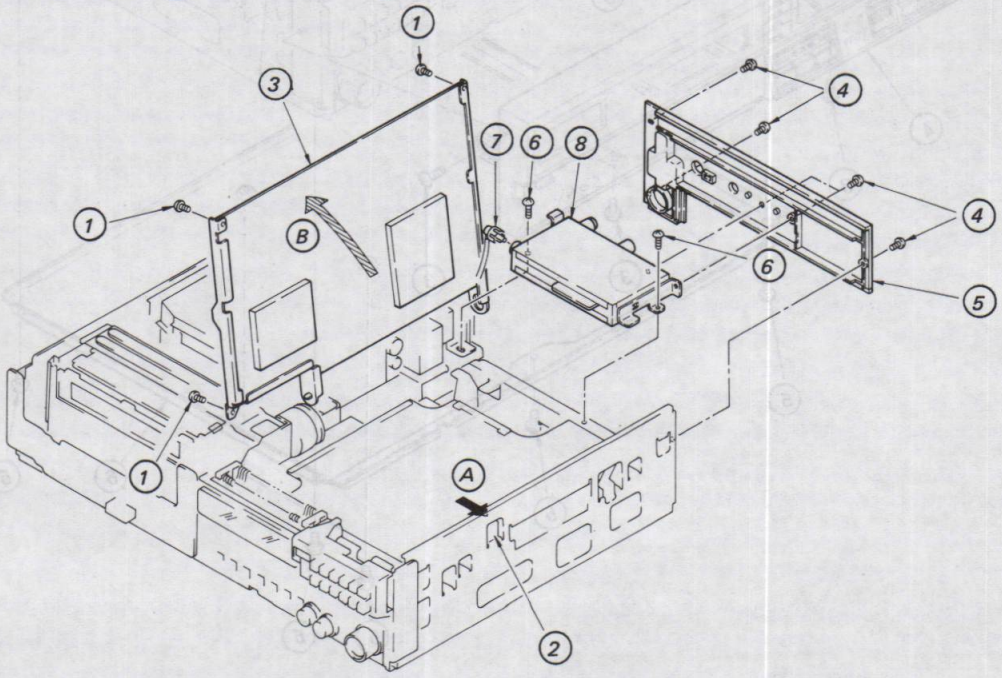
2-2. TU-24 Board, JR-1 Board Removal

1. Remove the three screws (1) .
2. Pull PC support (2) in the direction of arrow (A), and remove the TU-24 board (3) retainer.
3. Pull TU-24 board (3) up in the direction of arrow (B) .
4. Remove the two screws (4) .
5. Push chassis supporter (5) in the direction of arrow (C) and remove the JR-1 board (6) retainer.
6. Pull JR-1 board (6) up in the direction of arrow (D) , and position a tape (7) as shown in Figure to support the JR-1 board.



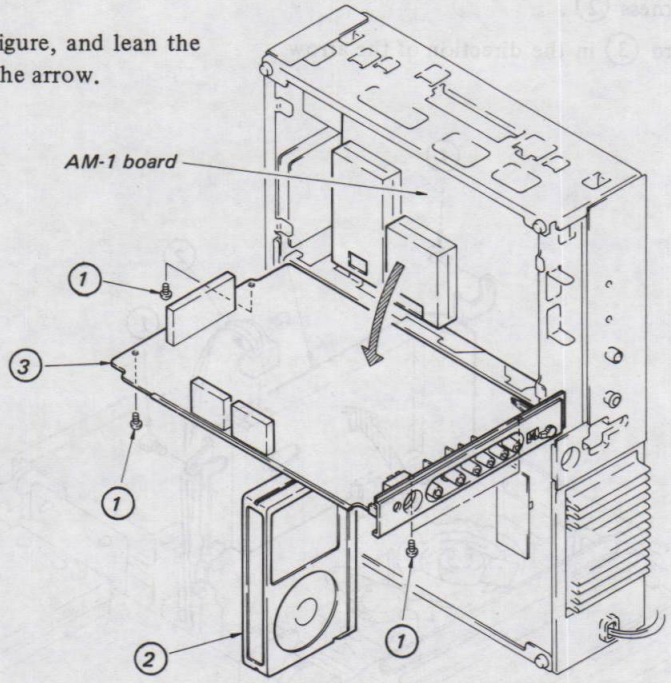
2-3. RF Modulator Removal

1. Remove the three screws (1) , push PC support (2) in the direction of arrow (A) , and pull the TU-24 board up in the direction of arrow (B) .
2. Remove the four screws (4) and rear panel (5) .
3. Remove the two screws (6) .
4. Remove pin cable (7) .
5. Remove the RF modulator (8) .



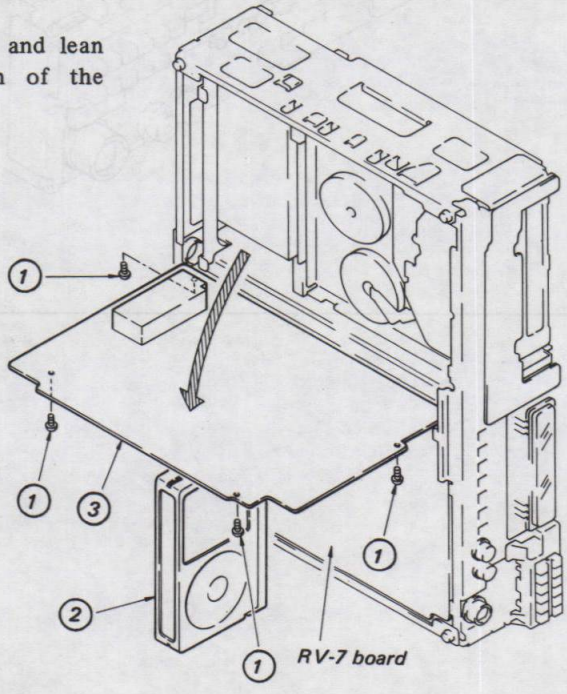
2-4. RV-7 Board Removal

1. Position the VTR as shown in Figure.
2. Remove the four screws (1).
3. Place a tape (2) as shown in Figure, and lean the RV-7 board in the direction of the arrow.



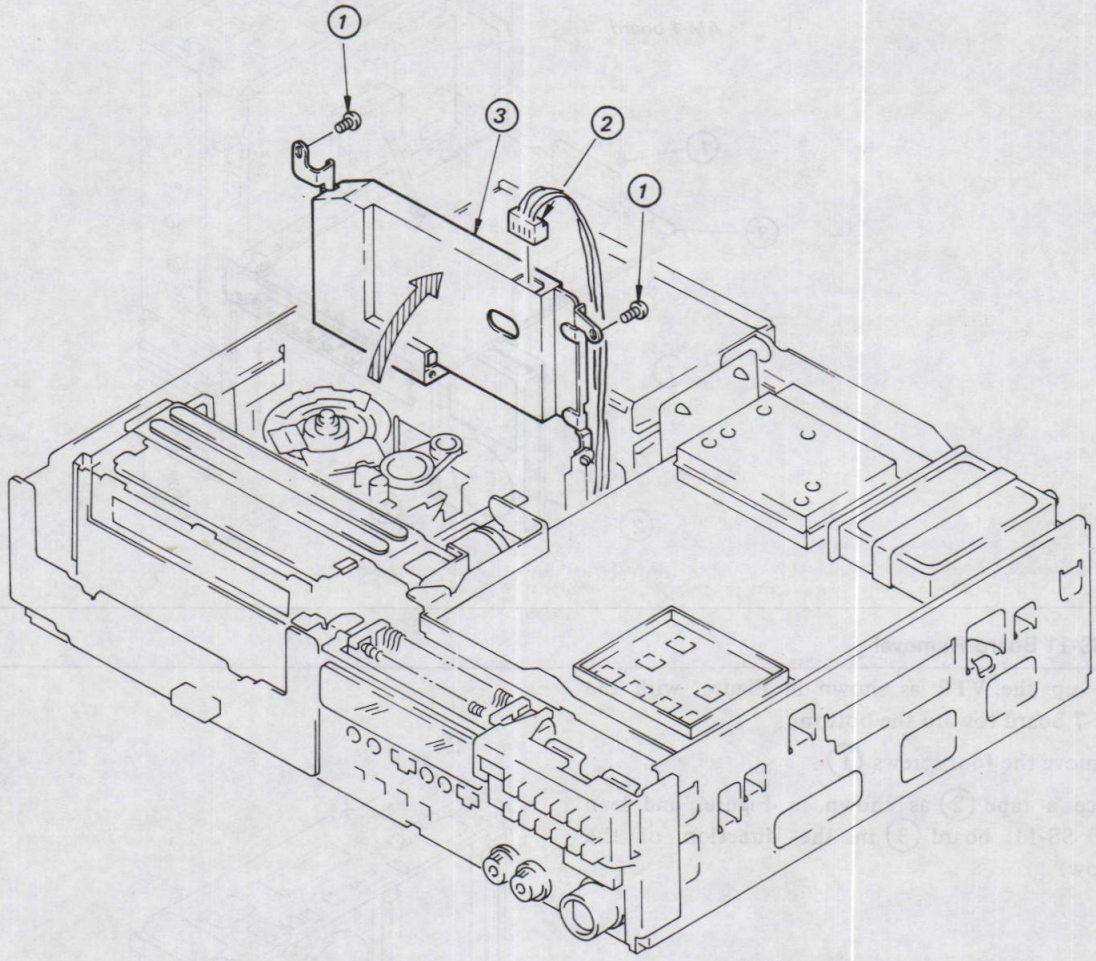
2-5. SS-11 Board Removal

1. Set up the VTR as shown in Figure, with the RV-7 board toward the bottom.
2. Remove the four screws (1).
3. Place a tape (2) as shown in Figure, and lean the SS-11 board (3) in the direction of the arrow.



2-6. RP-7 Board Removal

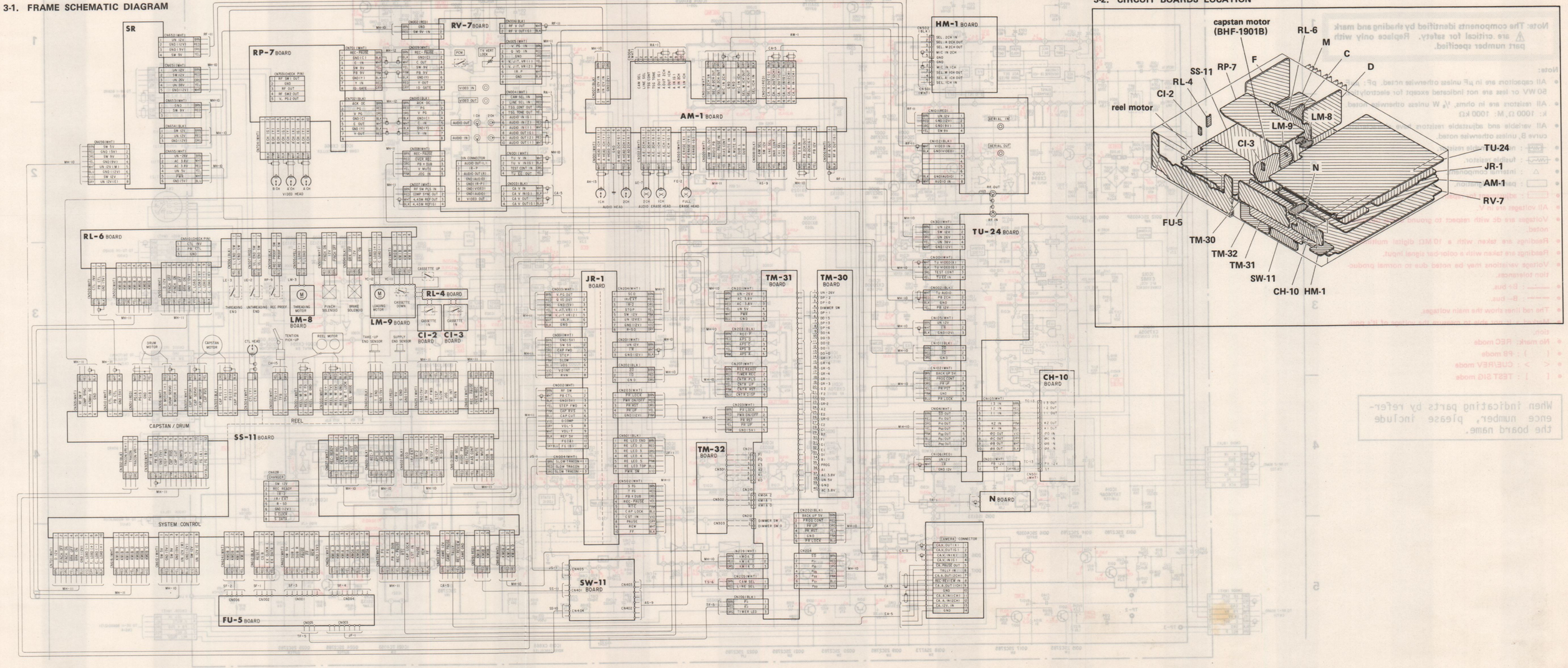
1. Remove the two screws (1) .
2. Disconnect harness (2) .
3. Lift RP-7 board (3) in the direction of the arrow.



SECTION 3
DIAGRAMS

FRAME FRAME

3-1. FRAME SCHEMATIC DIAGRAM



3-2. CIRCUIT BOARDS LOCATION

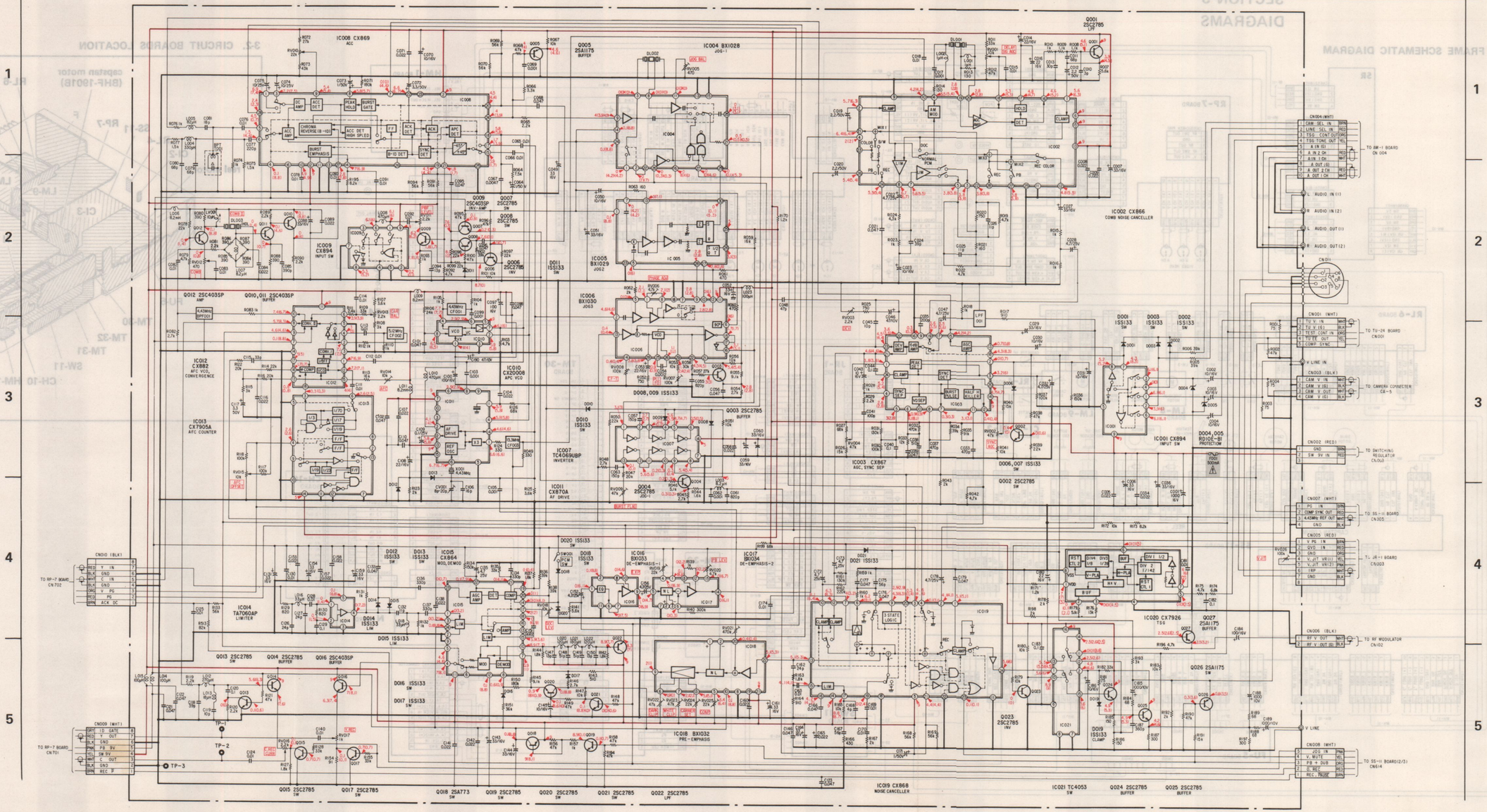
3-3. SCHEMATIC DIAGRAM – *Ref. No. 1000 series* –

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF
  50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms, 1/8 W unless otherwise noted.
  k: 1000 Ω, M: 1000 kΩ
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : nonflammable resistor.
- : fusible resistor.
- △ : internal component.
- : panel designation.
- : adjustment for repair.
- All voltages are in V.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 10 MΩ digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- ——— : B+ bus.
- – – – : B– bus.
- The red lines show the main voltages.
- Marked * is not able to measure the voltage of it's position.
- No mark: REC mode
- ( ) : PB mode
- < > : CUE/REV mode
- [ ] : TEST SIG mode

When indicating parts by reference number, please include the board name.

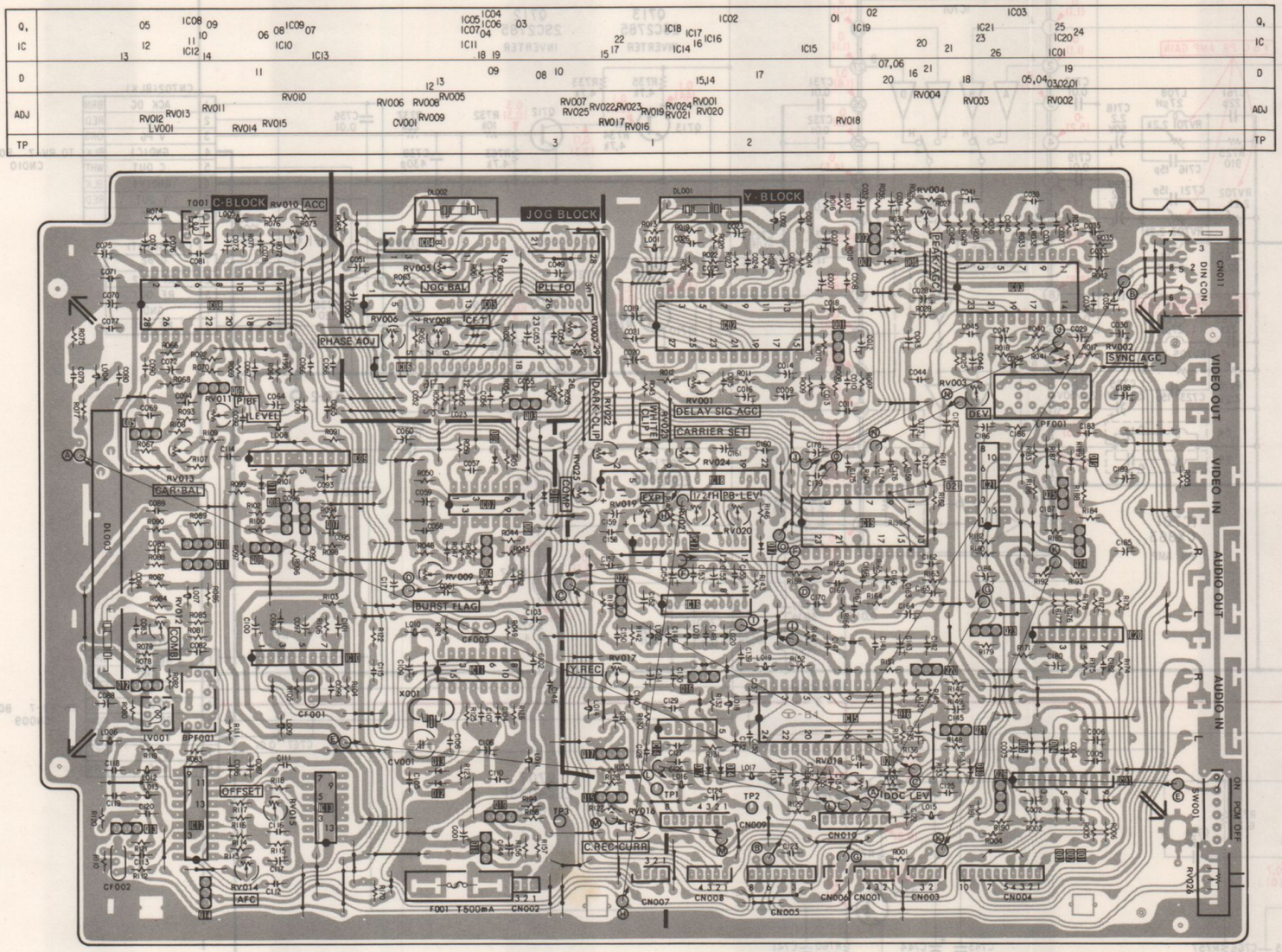


3-4. PRINTED WIRING BOARD – *Ref. No. 1000 series* –

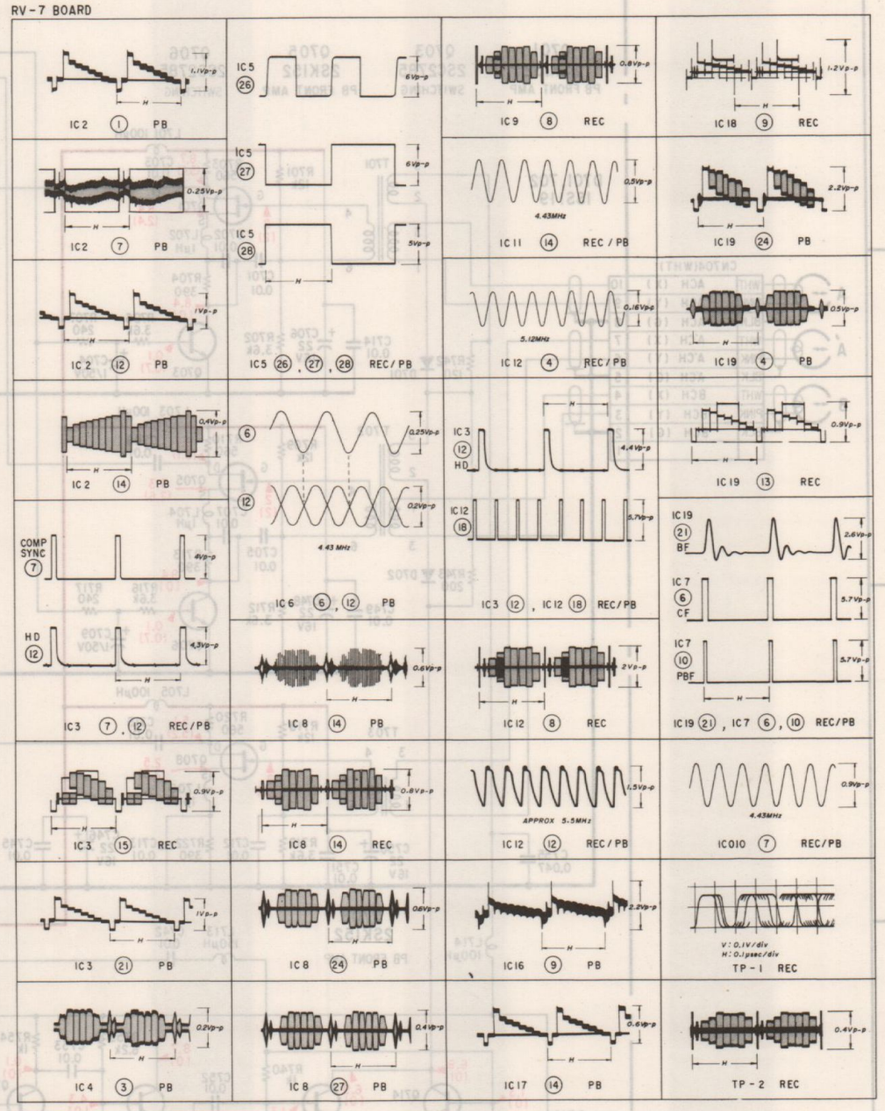
– Conductor Side –

A B C D E F G

1 2 3 4 5



RV-7 BOARD



3-5. SCHEMATIC DIAGRAM – *Ref. No. 1700 series* –

Note:
- No mark: REC mode
- ( ) : PB mode

RP-7 BOARD

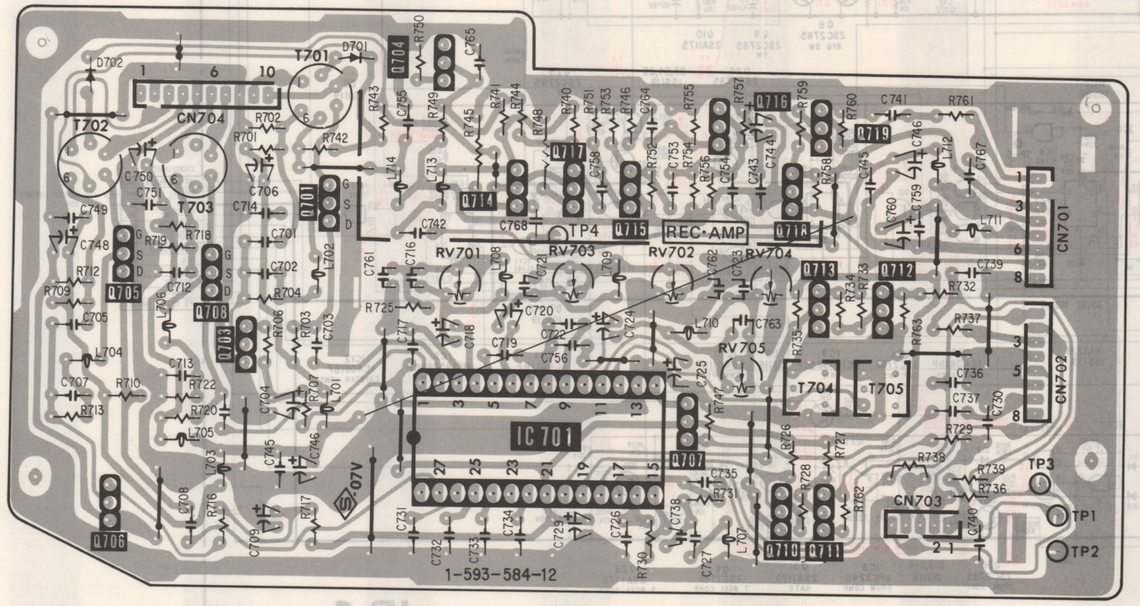
Q701 2SK152 PB FRONT AMP
Q703 2SC2785 SWITCHING
Q705 2SK152 PB FRONT AMP
Q706 2SC2785 SWITCHING
D701, 702 1SS119
L701 100µH
L703 100µH
L705 100µH
T701
T702
T703
CN704(WHT)
WHT ACH (X) 10
PINK ACH (Y) 9
BLK ACH (G) 8
WHT A'CH (X) 7
PINK A'CH (Y) 6
BLK A'CH (G) 5
WHT BCH (X) 4
PINK BCH (Y) 3
BLK BCH (G) 2
Y&C PB AMP GAIN
RV701 2.2k
RV702 2.2k
RV703 2.2k
RV704 2.2k
RV705 2.2k
T4
T5
IC701
CX863
PB AMP
OFF SET CANCELLAR
Q713 2SC2785 INVERTER
Q712 2SC2785 INVERTER
Q710 2SC2785 INVERTER
Q711 2SC2785 INVERTER
Q707 2SC403SP SWITCHING
CN702(BLK)
1 ACK DC BRN
2 PG RED
3 V PG ORG
4 GND(C) BLK
5 C OUT WHT
6 GND(Y) BLK
7 Y OUT RED
8 N·C
TO RV-7 BOARD CN010
CN703(WHT)
1 V PG
2 RF SW2
3 RF OUT
4 GND
5 RF SW1
TP-1
TP-2
TP-3
CN701(WHT)
1 REC P BRN
2 C GND BLK
3 C IN WHT
4 9V YEL
5 PB 9V PINK
6 Y GND BLK
7 Y IN RED
8 N·C GRY
TO RV-7 BOARD CN009
Q708 2SK152 PB FRONT AMP
L714 100µH
L713 150µH
L712 100µH
Q704 2SC403SP SWITCHING
Q714 2SC403SP REC AMP
Q717 2SC403SP REC AMP
Q715 2SC403SP REC AMP
Q716 2SC403SP REC AMP
Q718 2SA773 SWITCHING
Q719 2SC2785 SWITCHING
TP-4

When indicating parts by reference number, please include the board name.

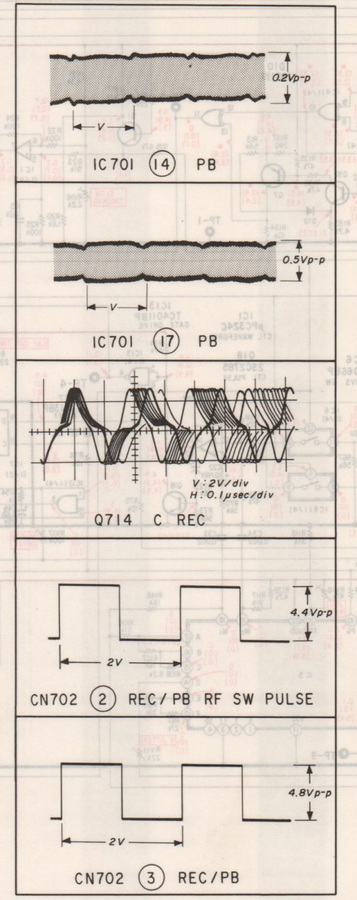
3-6. PRINTED WIRING BOARD – Ref. No. 1700 series –
– Conductor Side –

– PR-7 Board –

Q IC	705, 706, 708, 703, 701, 704, 714,717,715, IC701, 716, 707, 719, 718, 713, 712, 710,711
D	702, 701
ADJ TP	RV701, RV703, TP4, RV702, RV705, RV704, TP3, TP1, TP2



RP-7 BOARD



MEMO

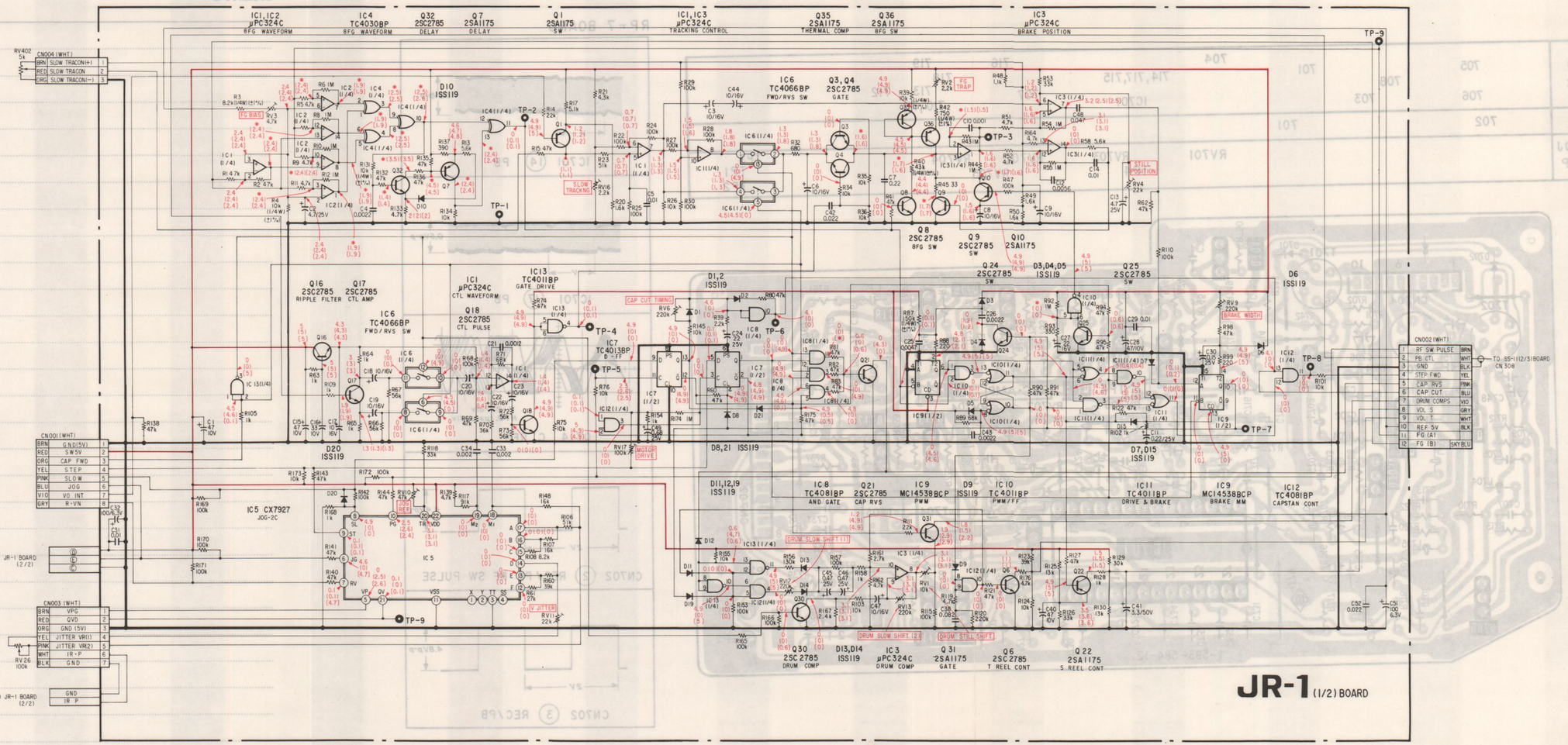
JR-1 (1/2) (VARIABLE SPEED PLAYBACK, REMOCON AMOUNT OF TAPE REMAINING)

3-7. SCHEMATIC DIAGRAM — *Ref. No. JR-1 BOARD (1/2) 7000 series* —

Note:

- No mark: PB mode
- ( ) : STILL mode
- [ ] : x1 REVERSE mode
- Marked * is not able to measure the voltage of its position.

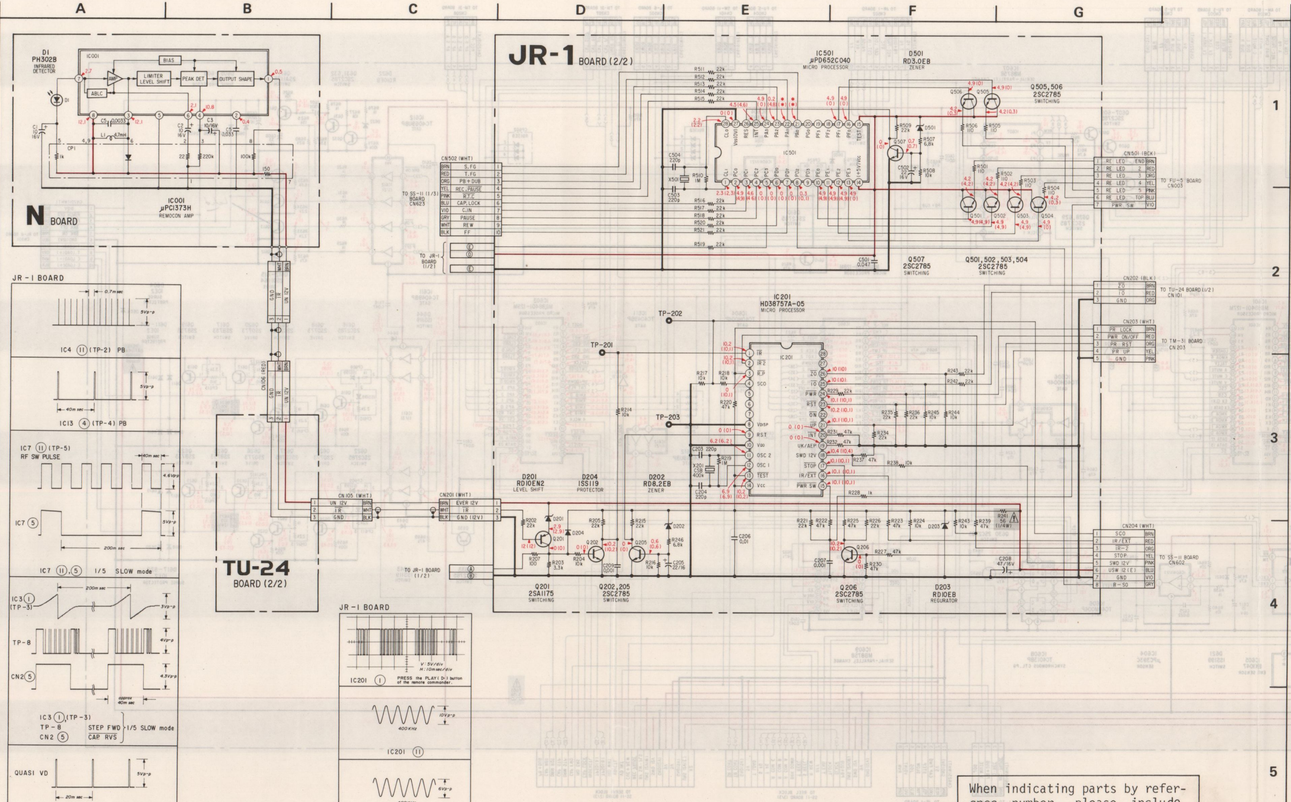
When indicating parts by reference number, please include the board name.



3-8. SCHEMATIC DIAGRAM

– Ref. No. JR-1 BOARD (2/2): 7200 series, N BOARD 100 series –

Note:
- N board voltage: E-E mode

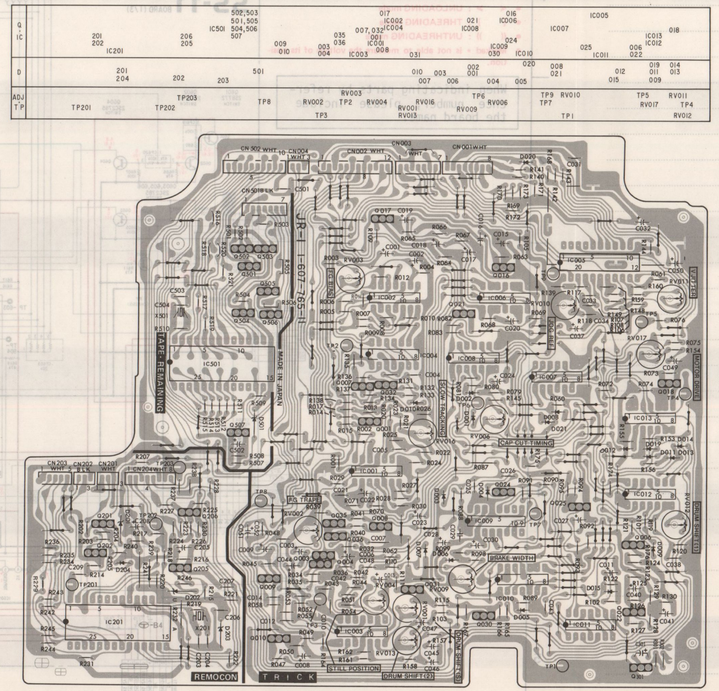


When indicating parts by reference number, please include the board name.

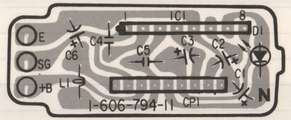
3-9. PRINTED WIRING BOARD – Conductor Side –

– Ref. No. JR-1 BOARD (2/2): 7200 series, N BOARD: 100 series –

– JR-1 Board –



– N Board –



MEMO

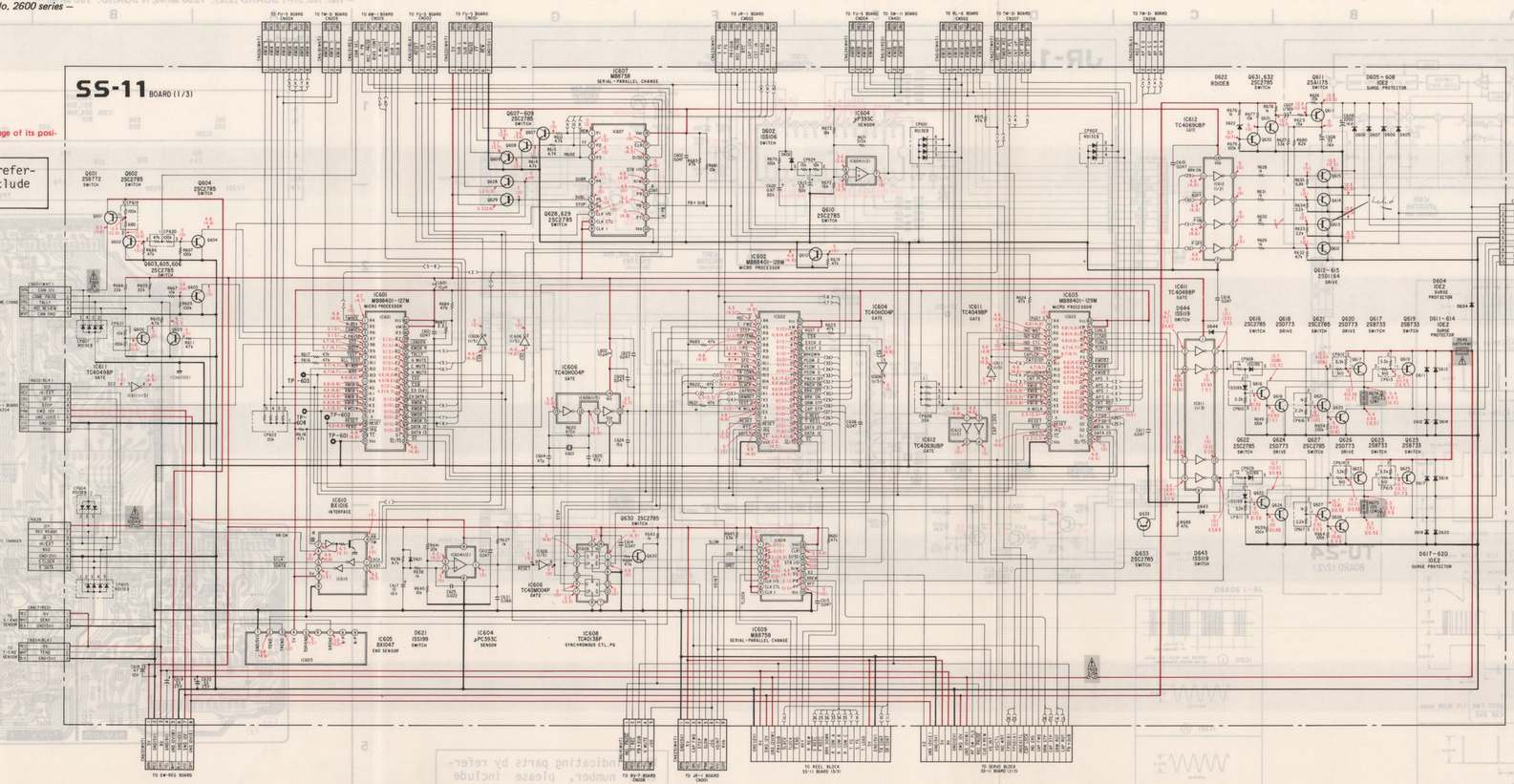
SS-11 (1/3) [SYSTEM CONTROL]

3-10. SCHEMATIC DIAGRAM — *Ref. No. 2600 series* —

Note:

- No mark: REC mode
- ( ) : PB mode
- < > : LOADING mode
- << >> : UNLOADING mode
- [ ] : THREADING mode
- (( )) : UNTHREADING mode
- Marked * is not able to measure the voltage of its position.

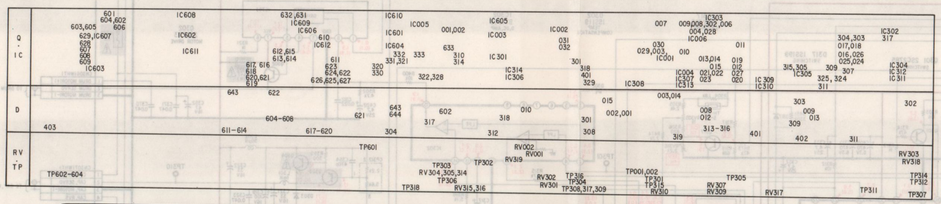
When indicating parts by reference number, please include the board name.

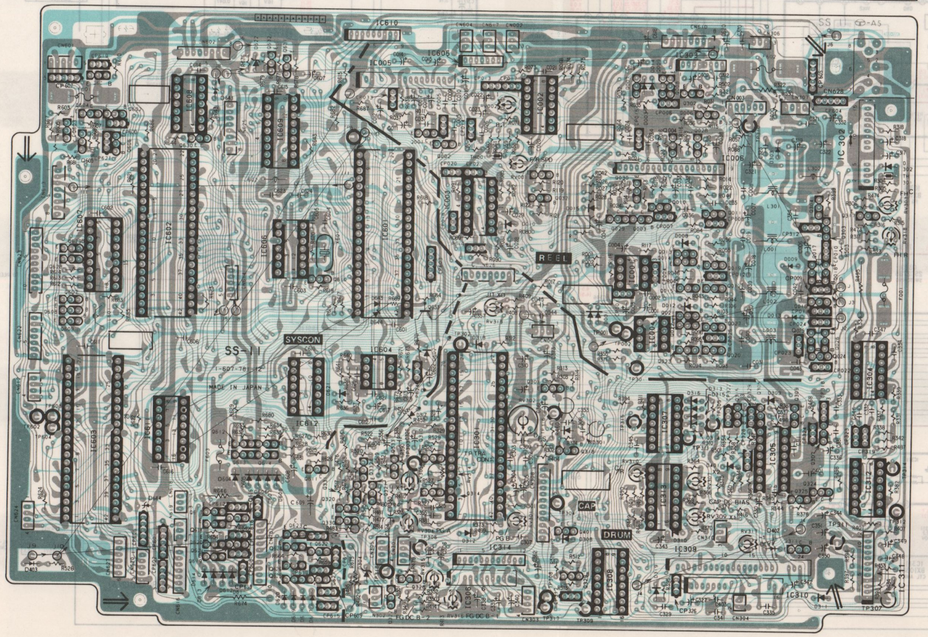


3-11. PRINTED WIRING BOARD – *Ref. No. 2600 series* –

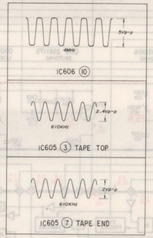
– Conductor Side –

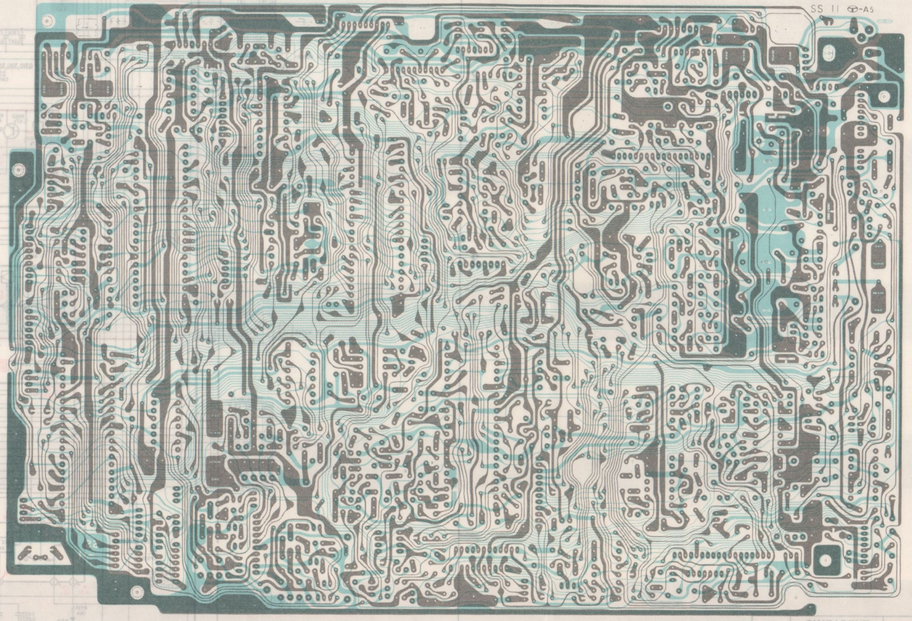
– SS-11 Board –





SS-11 (SYSTEM CONTROL) BOARD





3-12. SCHEMATIC DIAGRAM — *Ref. No. 2000 ~ 2500 series* —

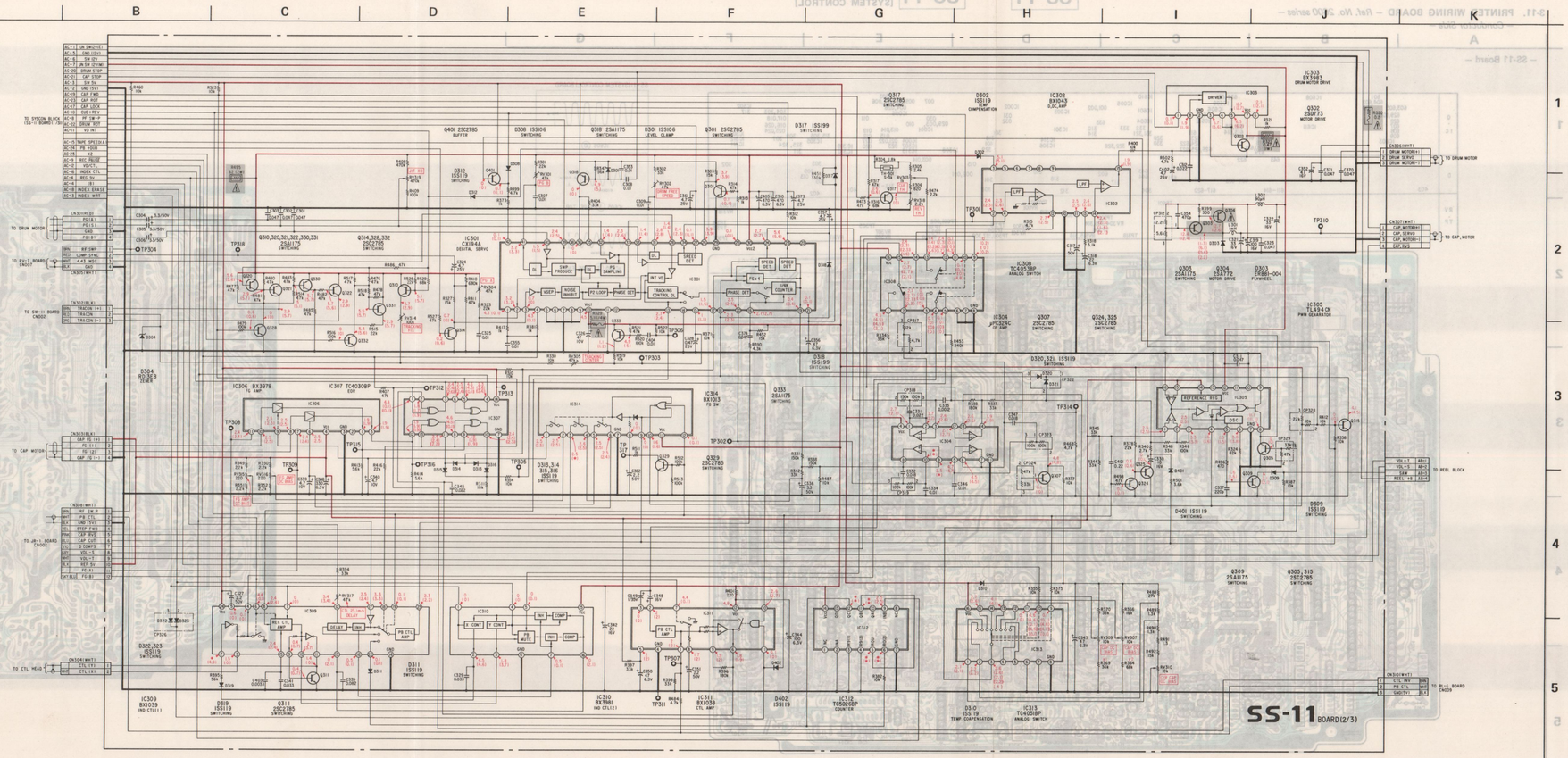
Note:

- No mark: REC mode
- ( ) : PB mode
- < > : FF mode
- [ ] : REW mode

When indicating parts by reference number, please include the board name.

Voltage table of IC006

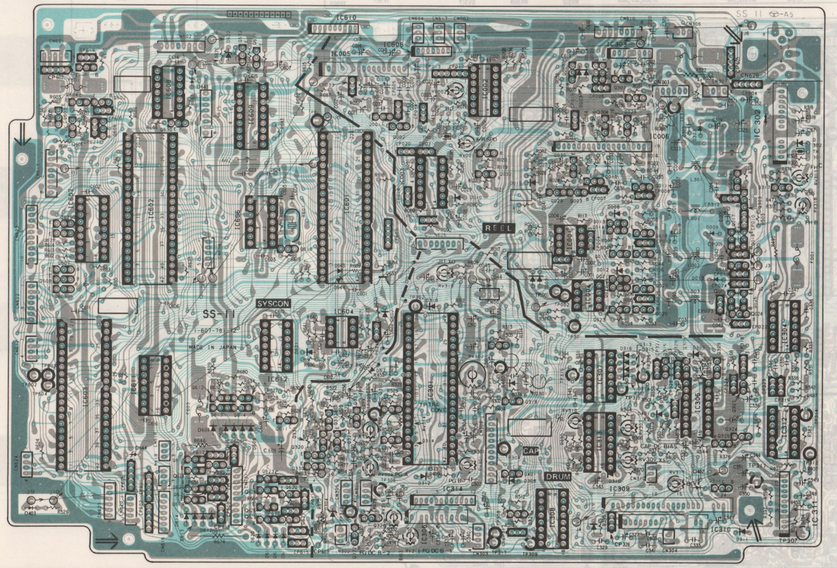
Pin \ Mode	PB (FWD)	PB (REVERSE)	FF	REW	CUE	REV	THREADING UNTHREADING	E-E
1	0	0	0	0	4.6	4.6	4.6	4.6
2	0	0	4.6	4.6	0	0	4.6	4.6
3	0	4.6	0	4.6	0	4.6	0	4.6/0



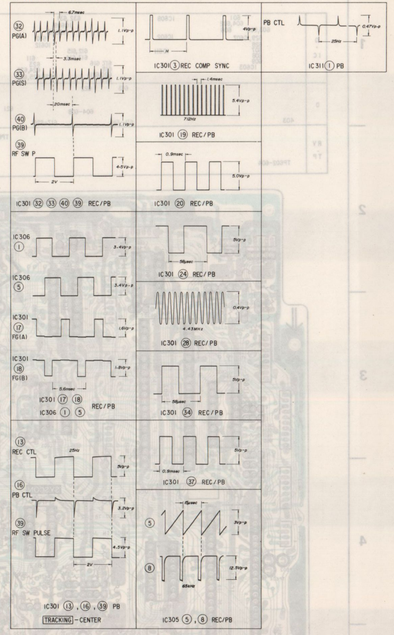
3-13. PRINTED WIRING BOARD — *Ref. No. 2000 ~ 2500 series* —

— Conductor Side —

— SS-11 Board —

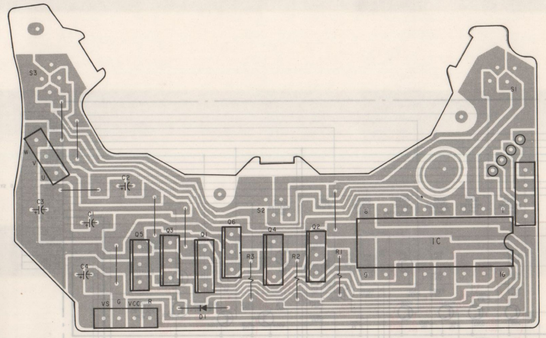


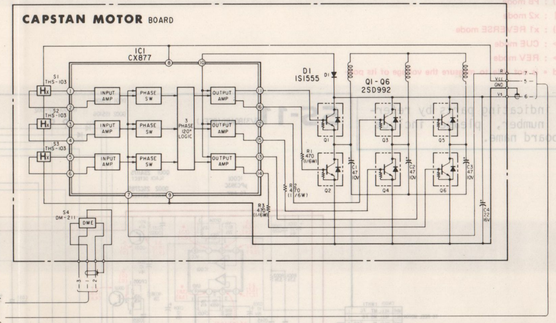
SS-11 (CAPSTAN/DRUM SERVO) BOARD



3-14. CAPSTAN MOTOR SCHEMATIC DIAGRAM & PRINTED WIRING BOARD

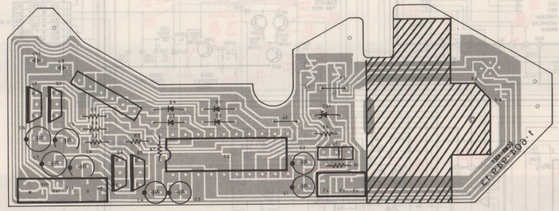
— Ref. No. 9000 series —

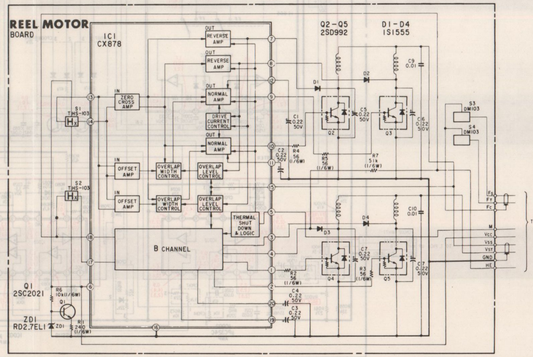




3-15. REEL MOTOR SCHEMATIC DIAGRAM & PRINTED WIRING BOARD

— Ref. No. 9100 series —





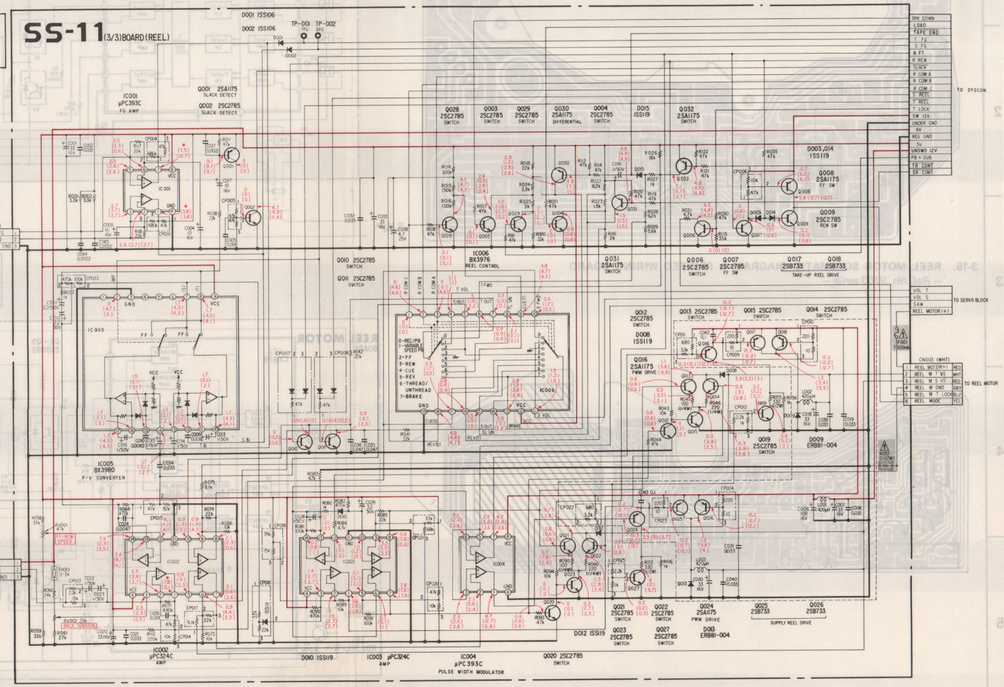
When indicating parts by reference number, please include the board name.

3-16. SCHEMATIC DIAGRAM — *Ref. No. 2800 series* —

Note:

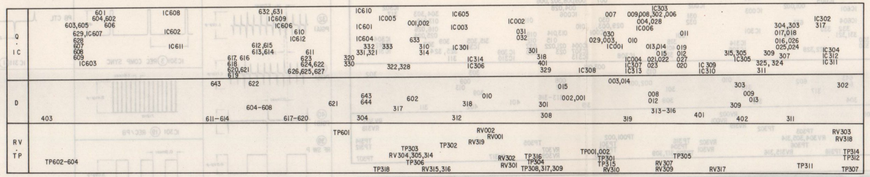
- No mark: REC mode
- ( ) : PB mode
- [ ] : x2 mode
- (( )) : x1 REVERSE mode
- < > : CUE mode
- ≪ ≫ : REV mode
- Marked • is not able to measure the voltage of its position.

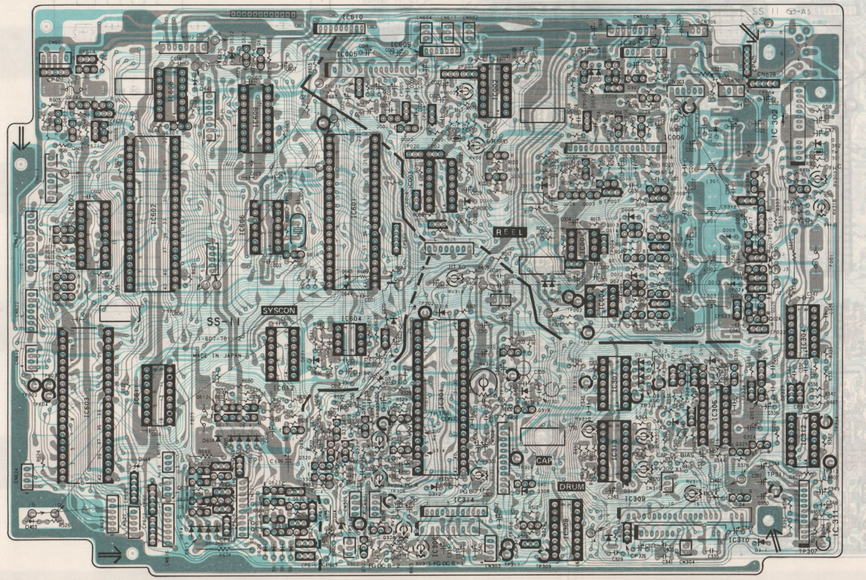
When indicating parts by reference number, please include the board name.

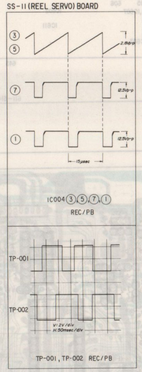


3-17. PRINTED WIRING BOARD — *Ref. No. 2800 series* — *Conductor Side* —

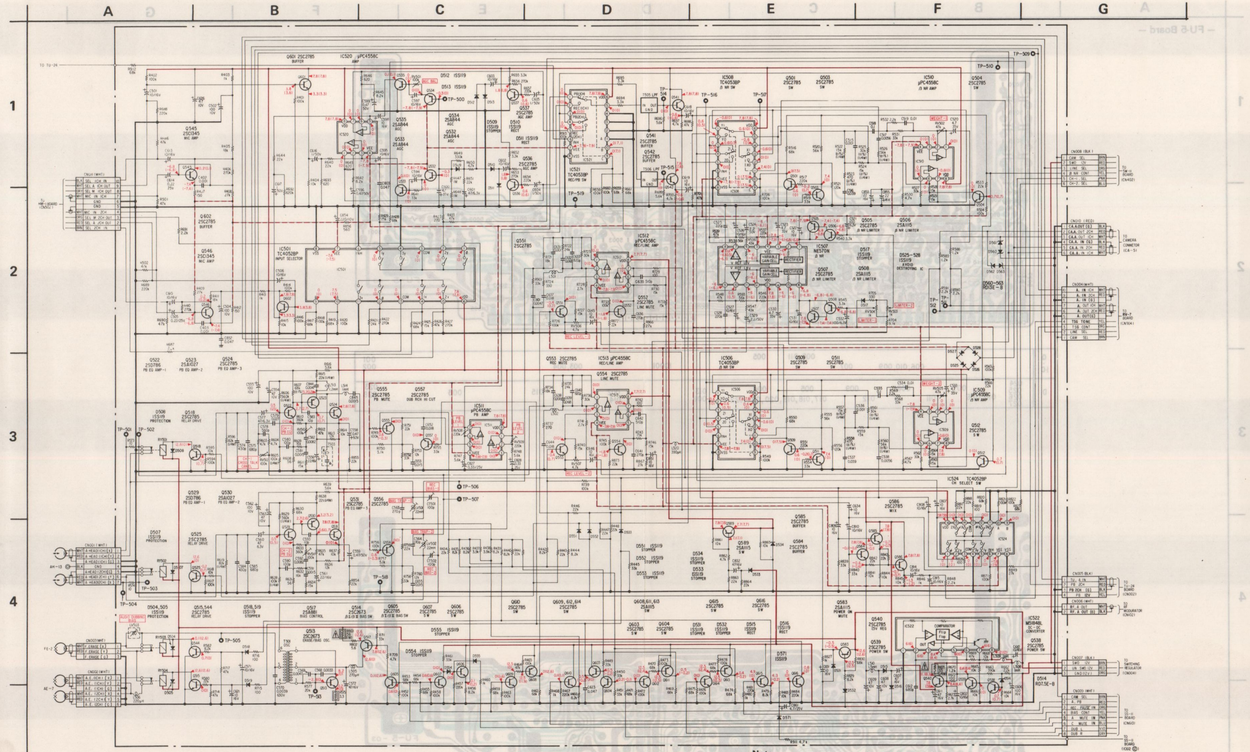
— SS-11 Board —







3-18. SCHEMATIC DIAGRAM — *Ref. No. 4000 series* —

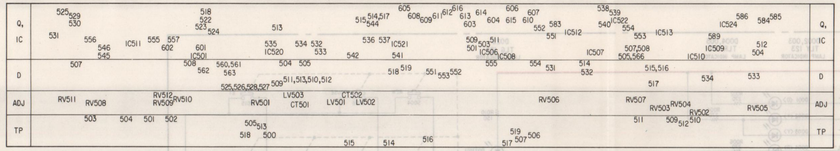


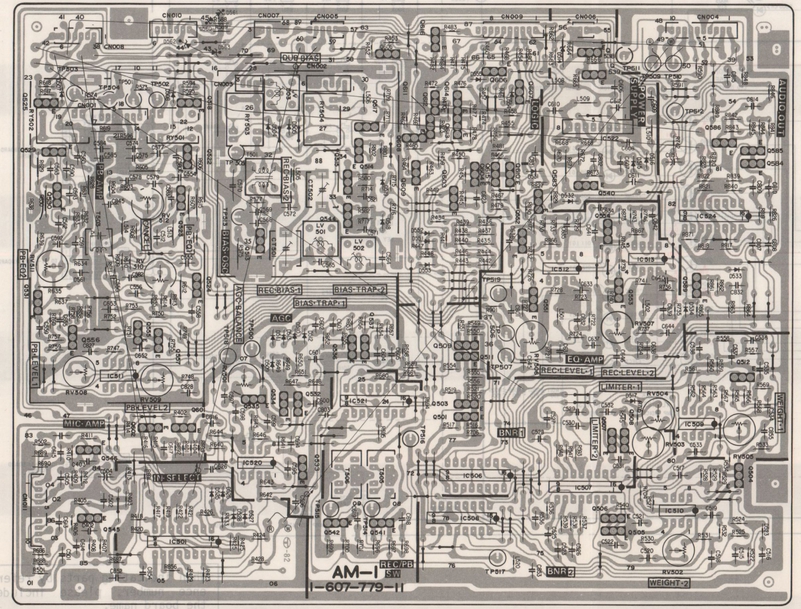
Note:
- No mark: REC mode
- ( ) : PB mode
- Reading are taken under conditions:
  INPUT SELECTOR is LINE/PCM position.
  BNR switch is ON position.

When indicating parts by reference number, please include the board name.

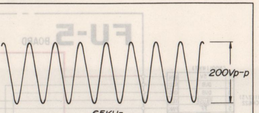
3-19. PRINTED WIRING BOARD — *Ref. No. 4000 series* — *Conductor Side* —

— AM-1 Board —



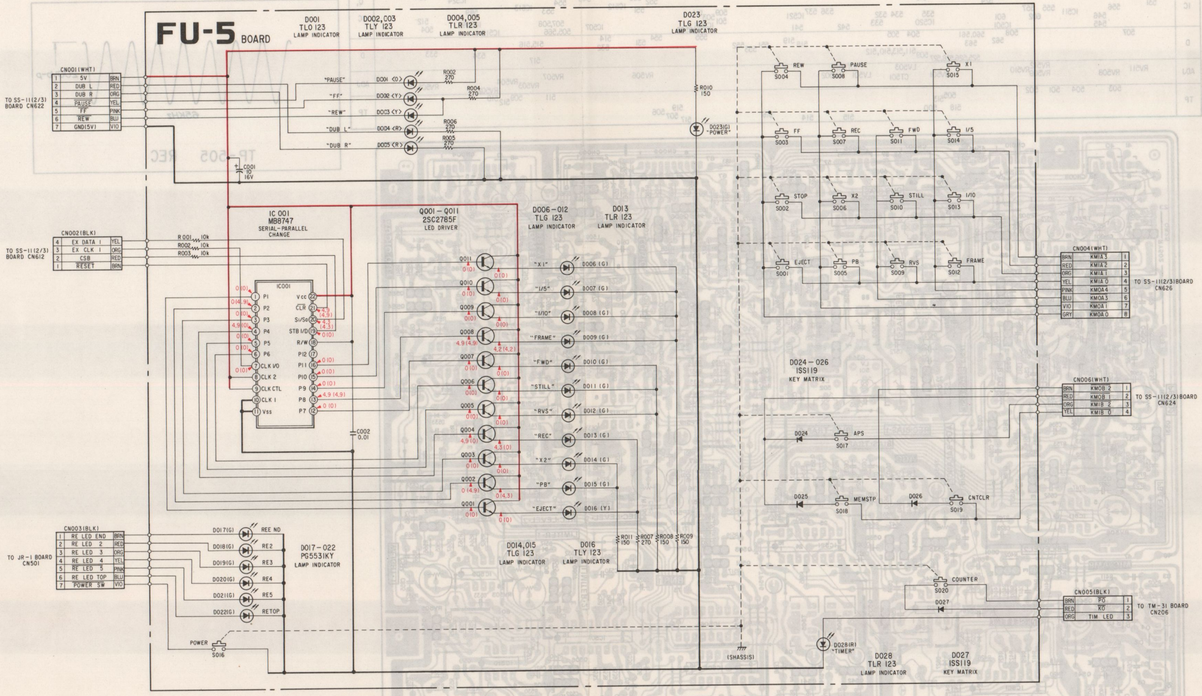


AM-1 BOARD



3-20. SCHEMATIC DIAGRAM — *Ref. No. 3000 series* —

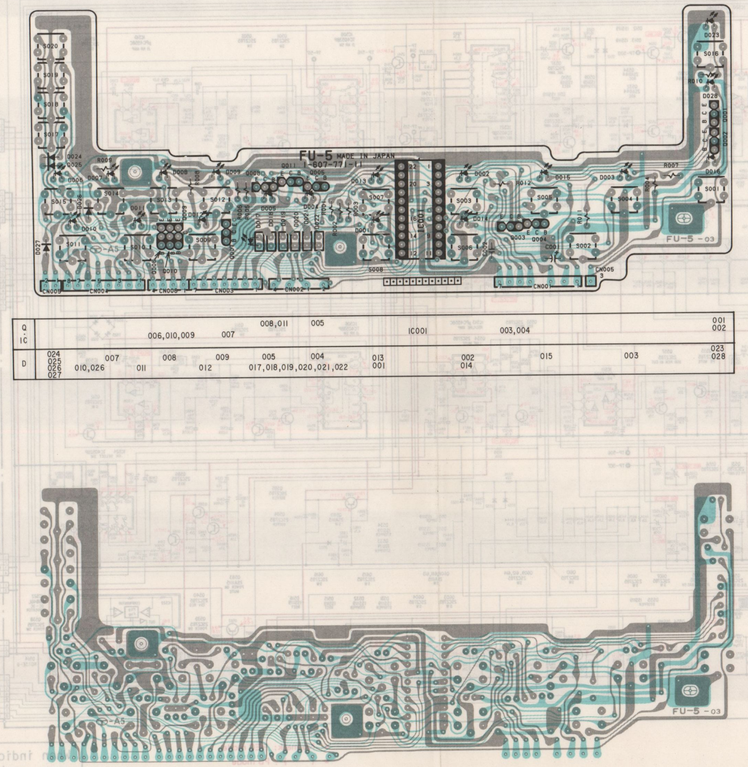
Note:
- No mark: REC mode
- ( ) : PB mode



When indicating parts by reference number, please include the board name.

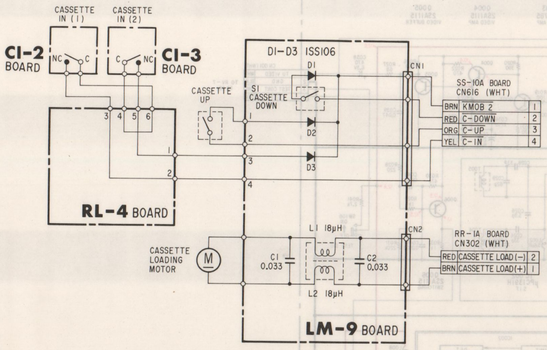
3-21. PRINTED WIRING BOARD — *Ref. No. 3000 series* — *— Conductor Side —*

— FU-5 Board —



CI-2 CI-3 RL-4 LM-9 [SWITCH, RELAY]

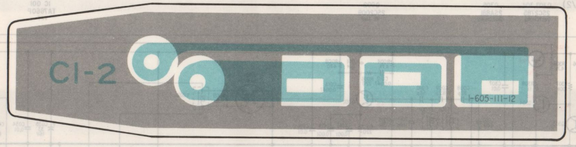
3-22. SCHEMATIC DIAGRAMS — *Ref. No. LM-9 BOARD: 9500 series —*



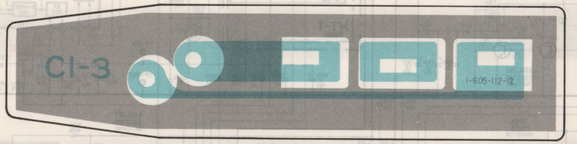
When indicating parts by reference number, please include the board name.

3-23. PRINTED WIRING BOARD — *Ref. No. LM-9 BOARD: 9500 series — Conductor Side —*

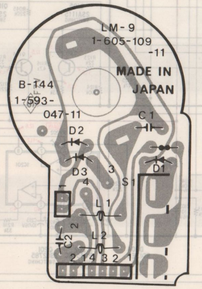
— C1-2 Board —



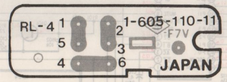
— C1-3 Board —



— LM-9 Board —

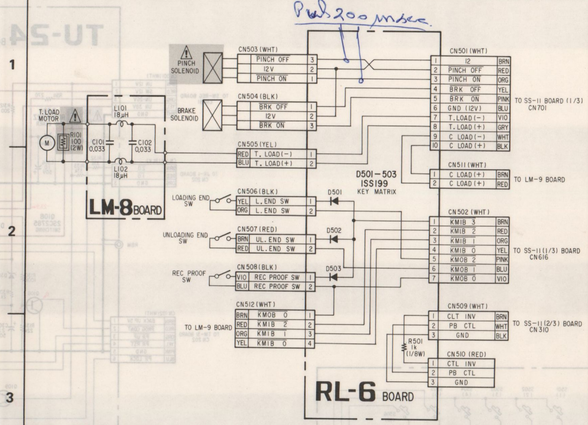


— RL-4 Board —



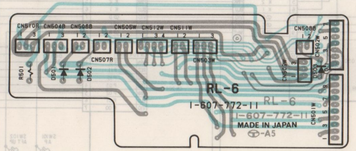
(NOISE FILTER TERMINAL) LM-8 RL-6 SW-11 [SWITCH]

3-24. SCHEMATIC DIAGRAM — *Ref. No. RL-6 BOARD: 13000 series, LM-8 BOARD: 9300 series —*

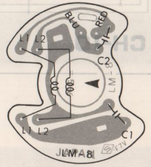

PINCH SOLENOID
T.LOAD MOTOR
BRAKE SOLENOID
LOADING END SW
UNLOADING END SW
REC PROOF SW
LM-8 BOARD
CN503 (WHT) PINCH OFF 12V PINCH ON
CN504 (BLK) BRK OFF 12V BRK ON
CN505 (YEL) T. LOAD(−) T. LOAD(+)
CN506 (BLK) L. END SW
CN507 (RED) UL. END SW
CN508 (BLK) REC PROOF SW
CN512 (WHT) KMOB 0 KMOB 2 KMIB 1 KMIB 0
TO LM-9 BOARD
CN501 (WHT) PINCH OFF PINCH ON BRK OFF BRK ON T. LOAD(−) T. LOAD(+) GND (12V) C. LOAD(−) C. LOAD(+)
TO SS-11 BOARD (1/3) CN701
CN511 (WHT) C. LOAD(+) C. LOAD(−)
TO LM-9 BOARD
D501-503 ISS199 KEY MATRIX
CN502 (WHT) KMIB 3 KMIB 2 KMIB 1 KMIB 0 KMOB 2 KMOB 1 KMOB 0
TO SS-1(1/3) BOARD CN616
CN509 (WHT) CLT INV PB CTL GND
TO SS-1(2/3) BOARD CN310
CN510 (RED) CTL INV PB CTL GND
RL-6 BOARD

3-25. PRINTED WIRING BOARD — *Conductor Side —*

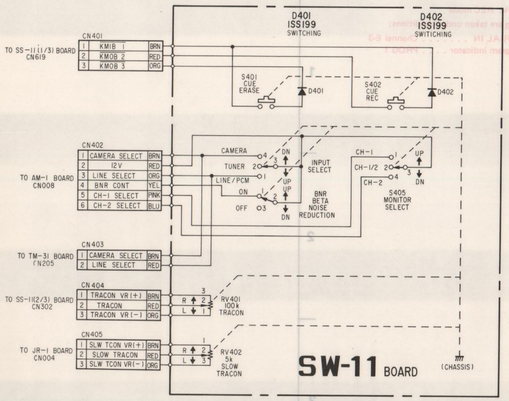
— RL-6 Board —



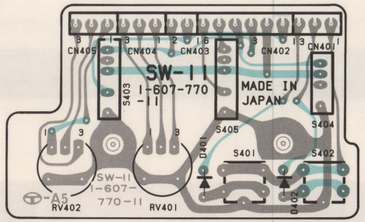
— LM-8 Board —



3-26. SCHEMATIC DIAGRAM — *Ref. No. 23000 series —*


TO SS-1(1/3) BOARD CN619
CN401 KMIB 1 KMOB 2 KMOB 3
D401 ISS199 SWITCHING
D402 ISS199 SWITCHING
S401 CUE ERASE
S402 CUE REC
TO AM-1 BOARD CN008
CN402 CAMERA SELECT I2V LINE SELECT CH-1 SELECT CH-2 SELECT
CAMERA TUNER LINE/PCM
INPUT SELECT
BNR BETA NOISE REDUCTION
S405 MONITOR SELECT
TO TM-31 BOARD CN205
CN403 CAMERA SELECT LINE SELECT
TO SS-1(2/3) BOARD CN302
CN404 TRACON VR(+) TRACON TRACON VR(−)
RV401 100k TRACON
TO JR-1 BOARD CN004
CN405 SLW TCON VR(+) SLOW TRACON SLW TCON VR(−)
RV402 5k SLOW TRACON
SW-11 BOARD
(CHASSIS)

3-27. PRINTED WIRING BOARD — *Conductor Side —*

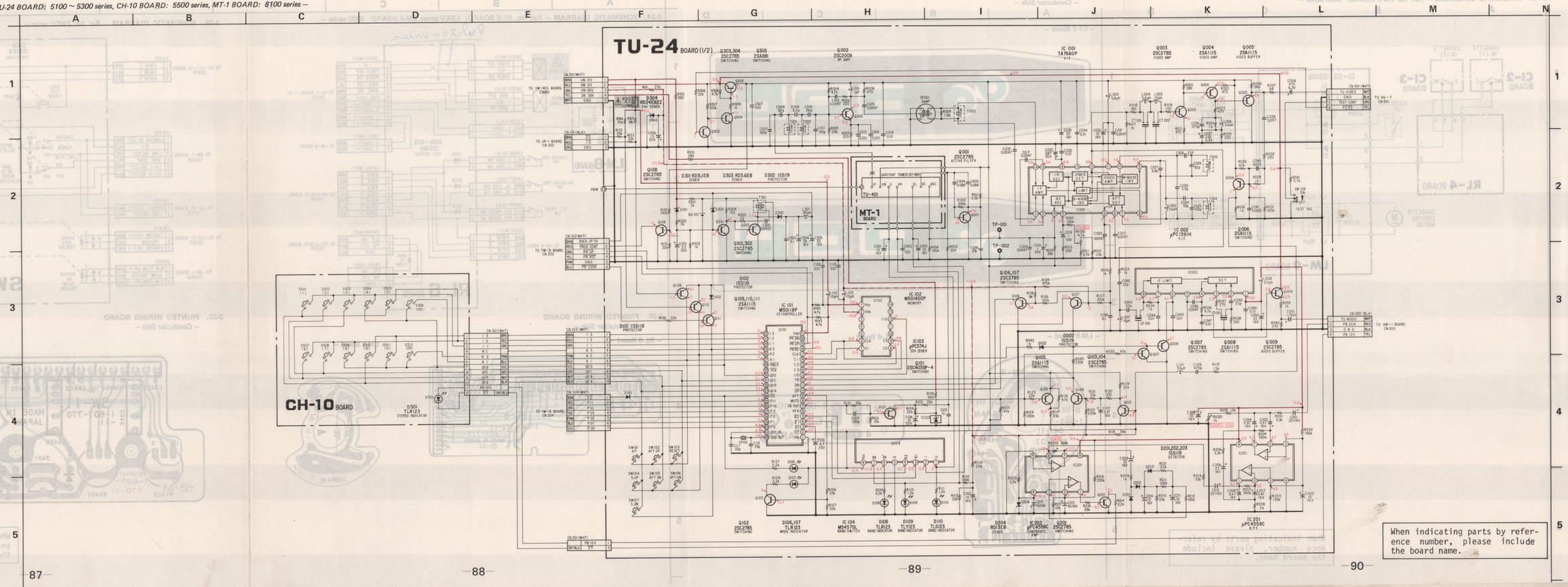


When indicating parts by reference number, please include the board name.

3-28. SCHEMATIC DIAGRAM – *Ref. No. TU-24 BOARD: 5100 ~ 5300 series, CH-10 BOARD: 5500 series, MT-1 BOARD: 8100 series –*

Note:

- No mark: REC mode
- Reading are taken under conditions:
  AERIAL IN . . . . . Channel E-3
  Program indicator . . . . PROG 1



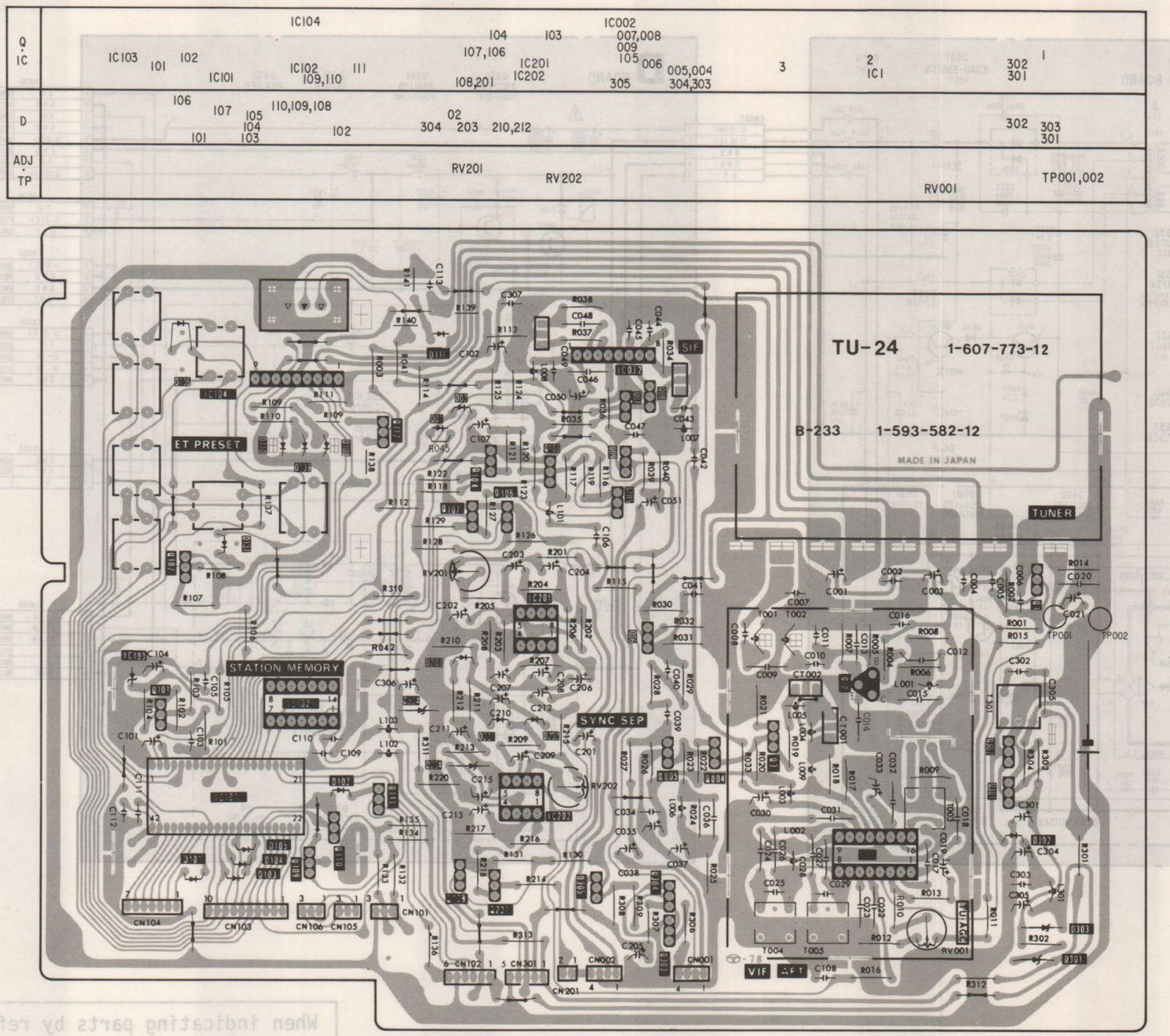
TU-24 (1/2) CH-10 HM-1 MT-1 (TUNER, VIF, SIF, TUNING CONTROL)

3-29. PRINTED WIRING BOARD – *Ref. No. TU-24 BOARD: 5100 ~ 5300 series, CH-10 BOARD: 5500 series, MT-1 BOARD: 8100 series* – *– Conductor Side –*

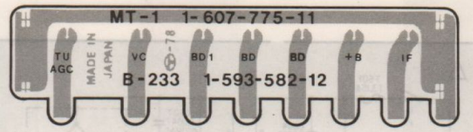
A B C D E F G

1 2 3 4 5

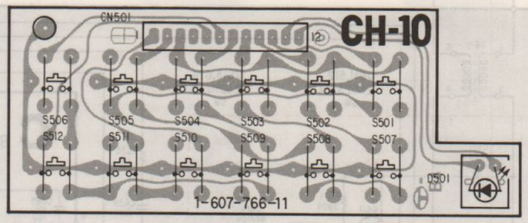
– TU-24 Board –



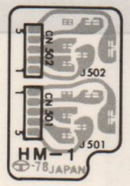
– MT-1 Board –



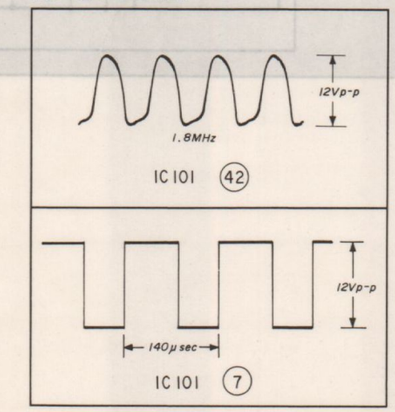
– CH-10 Board –



– HM-1 Board –



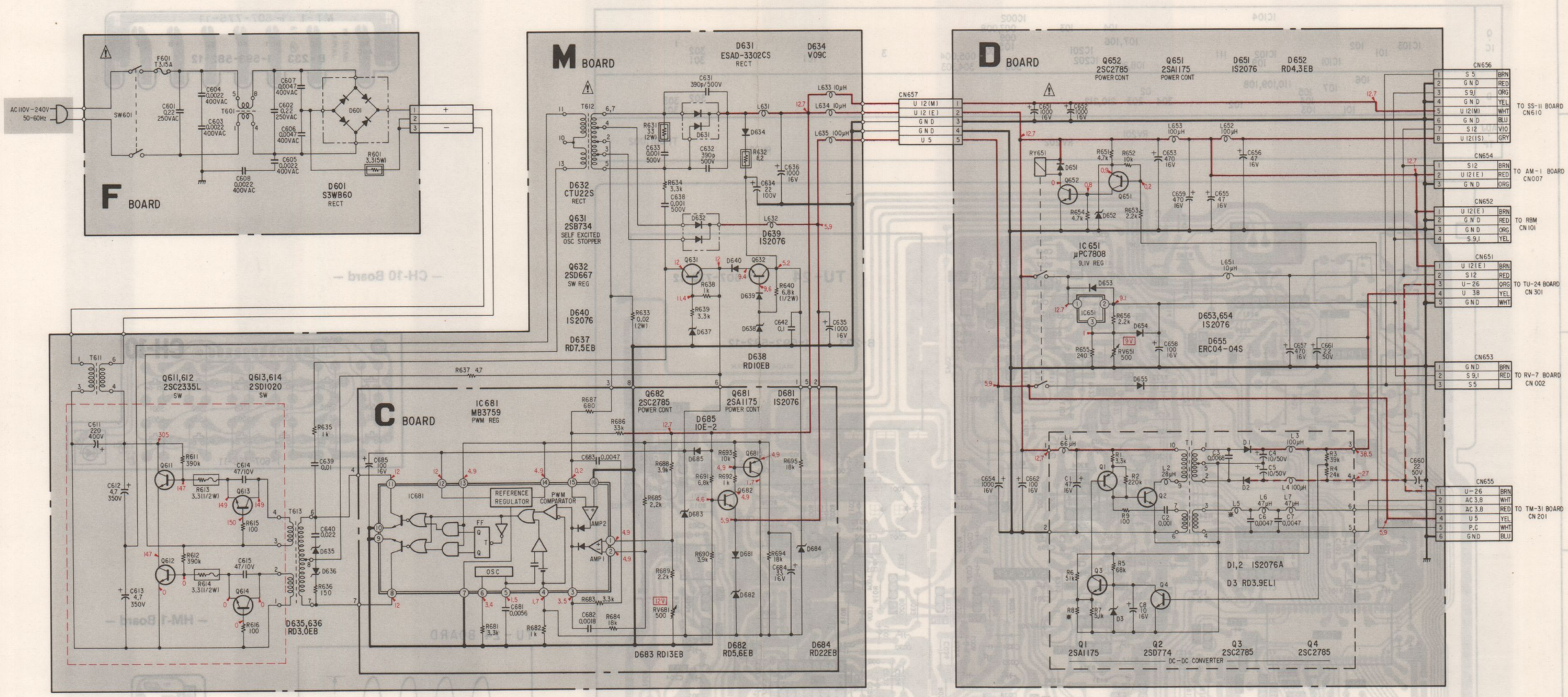
TU-24 BOARD



3-30. SCHEMATIC DIAGRAM – *Ref. No. 8600 series* –

Note:

- No mark: E-E mode
- [ ] : Voltages are measured from emitter of Q612.



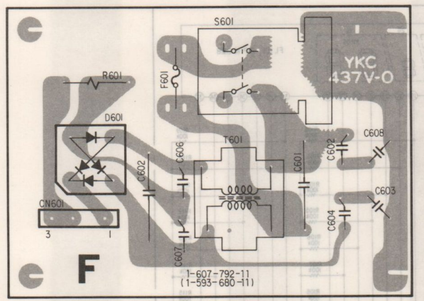
When indicating parts by reference number, please include the board name.

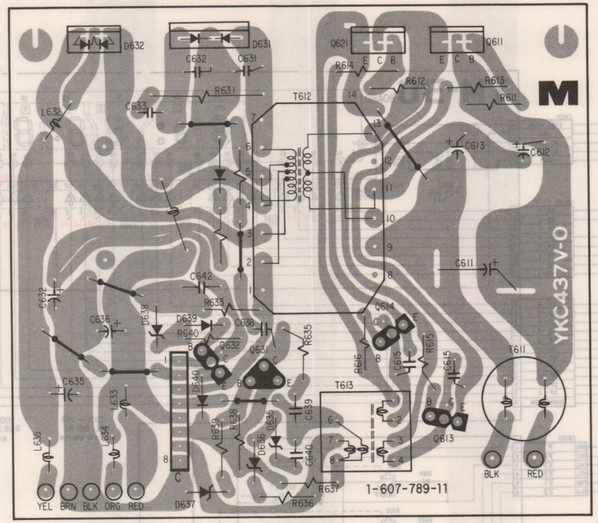
Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

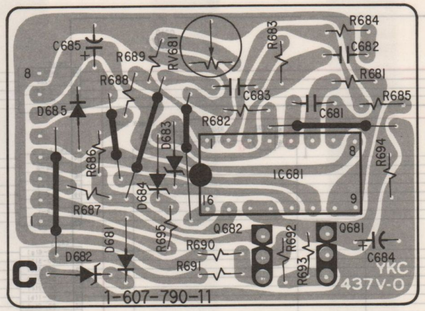
3-31. PRINTED WIRING BOARD — *Ref. No. 8600 series* —

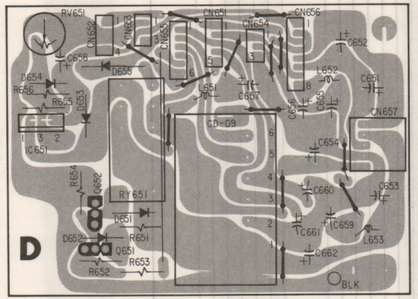
— Conductor Side —

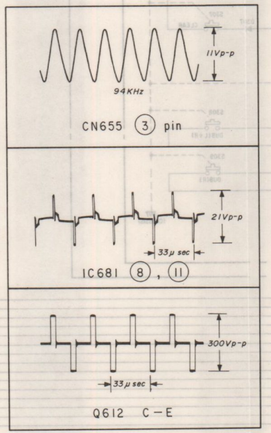
— SR-11E Board —

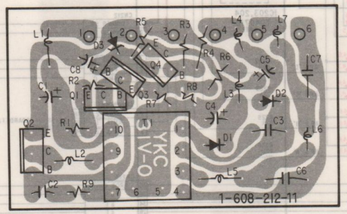












MEMO

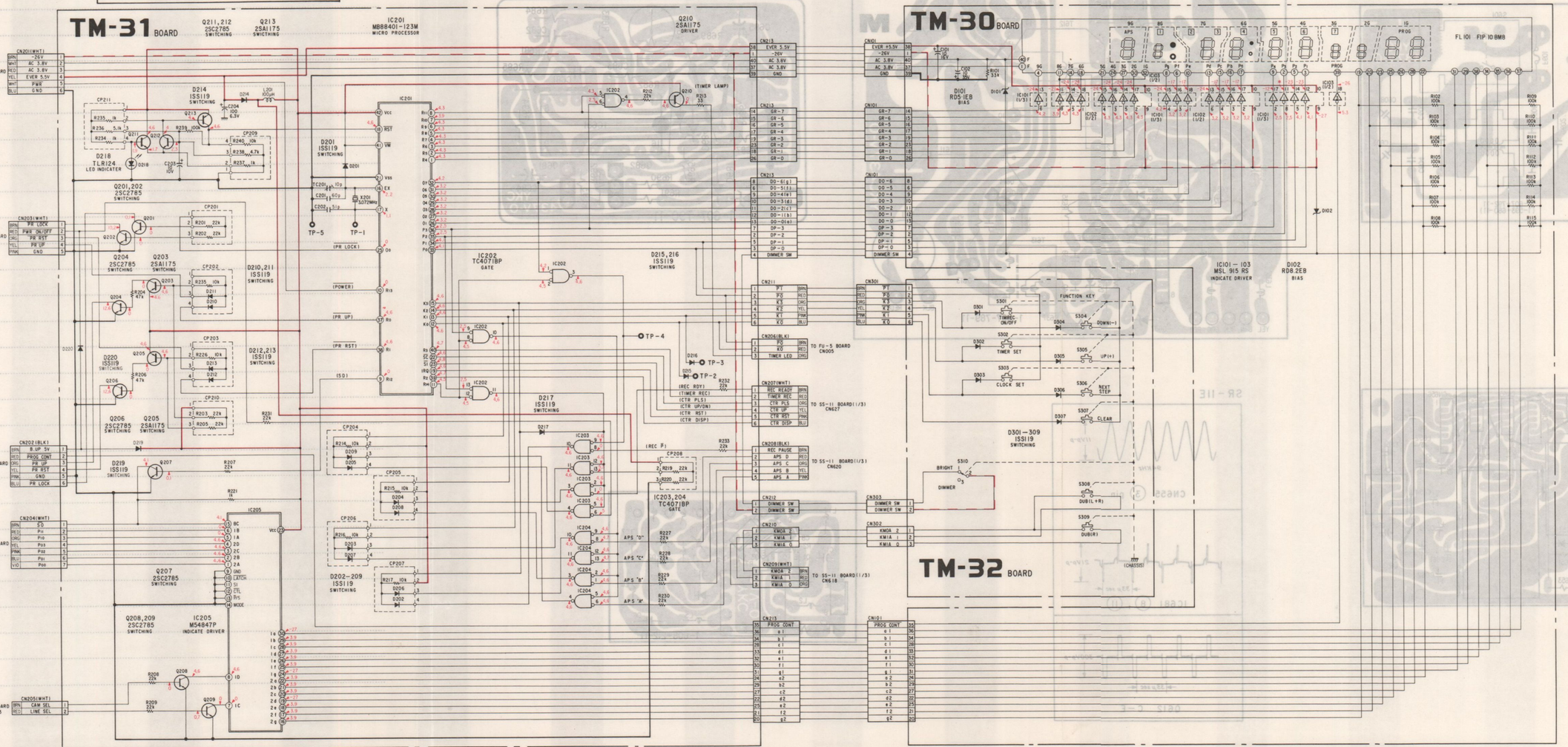
3-32. SCHEMATIC DIAGRAM

– Ref. No. TM-30 BOARD: 6100 series, TM-31 BOARD: 6200 series, TM-32 BOARD: 6300 series –

Note:

- No mark: E-E mode
- Marked • is not able to measure the voltage of its position.

When indicating parts by reference number, please include the board name.



3-33. PRINTED WIRING BOARD

– Conductor Side –

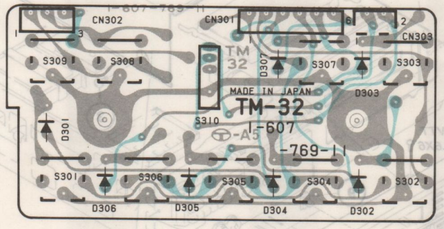
– Ref. No. TM-30 BOARD: 6100 series, TM-31 BOARD: 6200 series, TM-32 BOARD: 6300 series –

TM-32 TM-31 TM-30 TM-30 TM-31 TM-32 [TIMER]

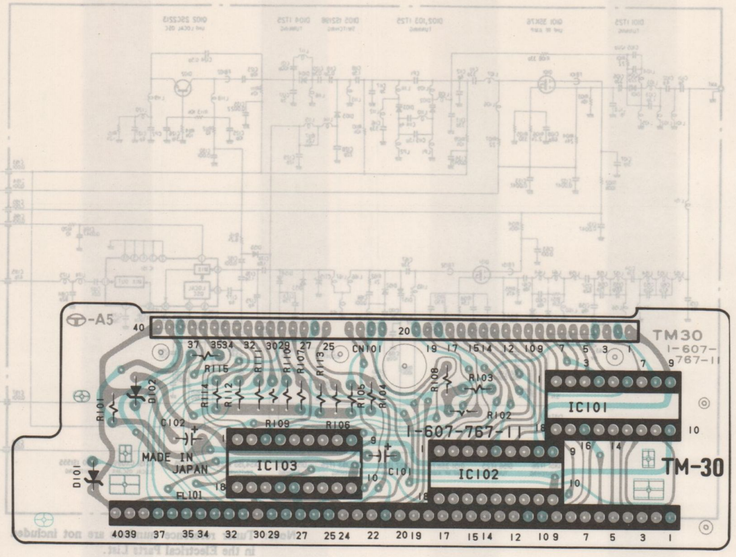
A B C D E F G H I J K

1 2 3 4 5

– TM-32 Board –

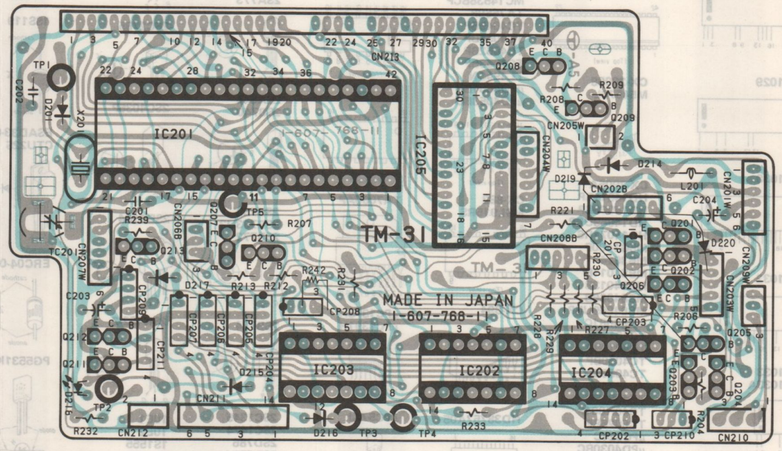


– TM-30 Board –



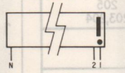
– TM-31 Board –

Q IC	212 211	IC 201 207,210	IC203	IC205 IC202	208	209	201 202 206	IC204	205 203,204
D	201	218	217	215	216		219 214		220
ADJ TP	TP1 TC201	TP2		TP5	TP3	TP4			

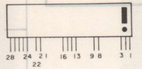


3-34. SEMICONDUCTORS

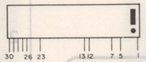
BX-1013
BX-1016
BX-1038
BX-3976
BX-3978
BX-3983



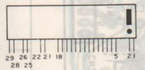
BX-1028



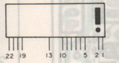
BX-1029



BX-1030



BX-1032

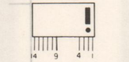


BX-1033
BX-1033A

BX-1034
BX-1034A

BX-1039

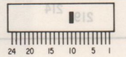
BX-1043



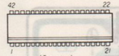
BX-1047

BX-3980

BX-3981



CX-194A-3



CX-20008
M54570L

CX-7905A
HD14011BP
HD14066BP
HD14069UBP
HD14071RS
M5G1400P
MB3614
MB84011B
MB84013B
MB84066B
MB84069UBP
MB84081C
TC4011BP
TC4013BP
TC4030BP
TC4066BP
TC4071BP
TC4081BP
TC40H004P
TC5026BP
μPC324C
μPD4030BC
μPD4066BC
μPD4071BC
μPD4081BC

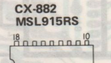
CX-7926
CX-7927

CX-863
CX-866
CX-866A
CX-869
μPD652C040

CX-864
CX-867

CX-870A
HD14053BP
HD14538BP
NE571N
MB84051B
MB84052B
MB84053B
MC14538BCP
TA7660P
TC4049BP
TC4051BP
TC4052BP
TC4053BP
TL494CN
μPD4051BP
μPD4053BC

CX-882
MSL915RS

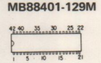


CX-894

HD38757A05

NJM2903D
NJM4558D
μPC393C
μPC4558C

M50118P
MB88401-123M
MB88401-127M
MB88401-128M
MB88401-129M



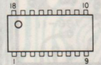
M51848L

M54847P

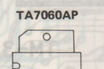
MB3759

MB8747

MB8758

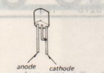


TA7060AP



μPC1373H
μPC1391H

μPC574J



μPC7808H

2SA1027R
2SC1027
2SC2603

2SA1048

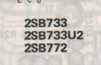
2SA1115

2SA1175

2SA772
2SA773

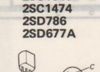
2SA844
2SB740

2SB733
2SB733U2
2SB772

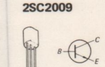


2SB734

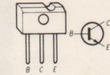
2SC1345
2SC1474
2SD786
2SD677A



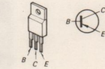
2SC2009



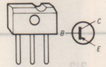
2SC2021



2SC2335

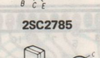


2SC2673



2SC2458

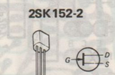
2SC2785



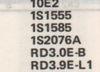
2SC4035P

2SD1164

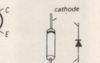
2SK152-2



10E1
10E2
1S1555
1S1585
1S2076A
RD3.0E-B
RD3.9E-L1
RD4.3E-B2
RD5.1E-B
RD5.6E-B2
RD7.5E-B
RD8.2E-B
RD10E-B
RD10E-B1
RD10E-B2
RD10E-B3
RD10E-N2
RD13E-B
RD13E-B1
RD22E-B3
RD24E-B2
RD24E-B2Z

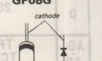


V09G
U05G

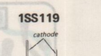


1SS106
1SS133
1SS148
ERB12-01RK
ERB12-02RK
ERB12-04RK
ERB81-004
GP08B
GP08D
GP08G

1SS119



ESAD33-02CS
CTU22S



ERC04-04S

PG5531KY

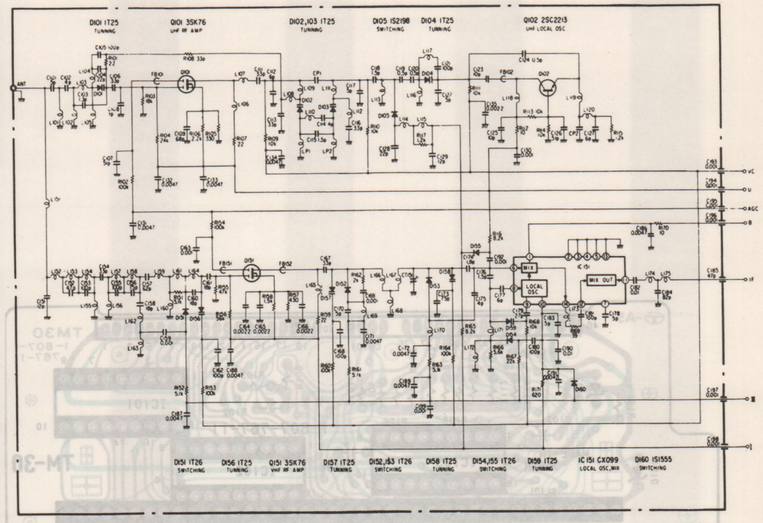
PH302B

S3WB60Z

TLG123A
TLR123
TLR124
TLO123

3-35. VHF/UHF TUNER SCHEMATIC DIAGRAM

● BT-881



Note: Tuner reference numbers are not included in the Electrical Parts List.

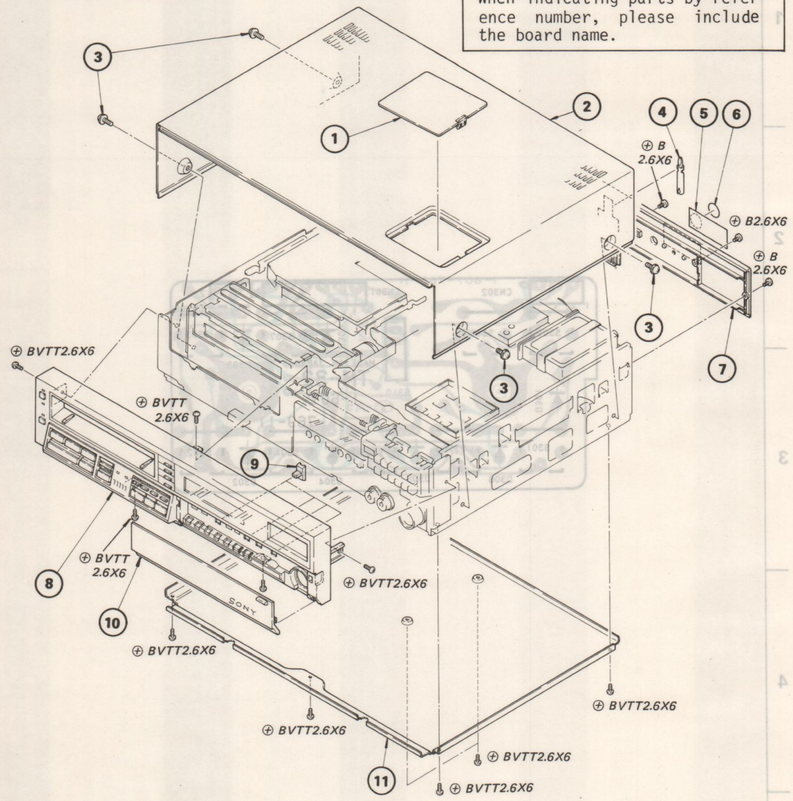
SECTION 4
EXPLODED VIEWS

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

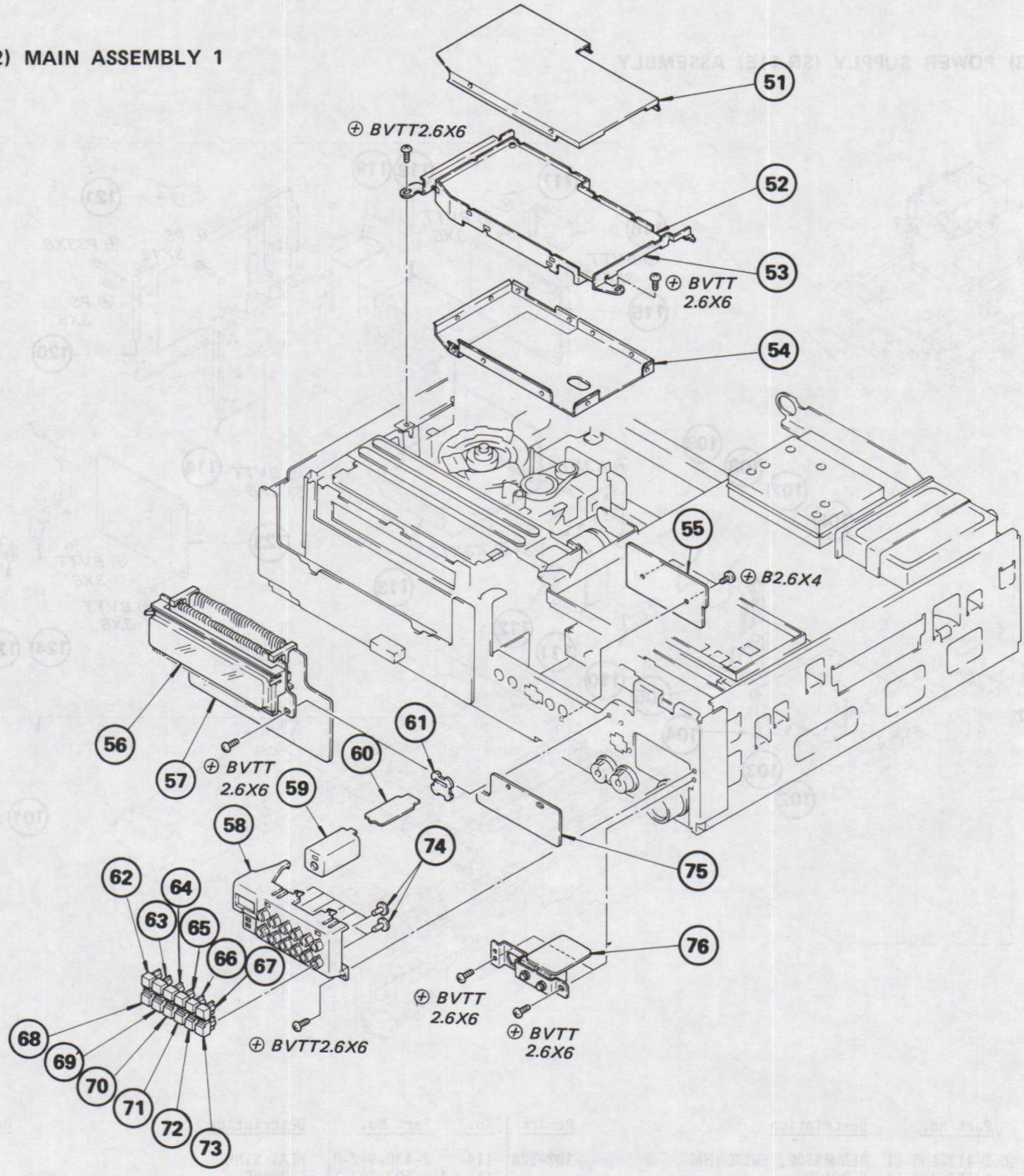
(1) CABINET ASSEMBLY

When indicating parts by reference number, please include the board name.



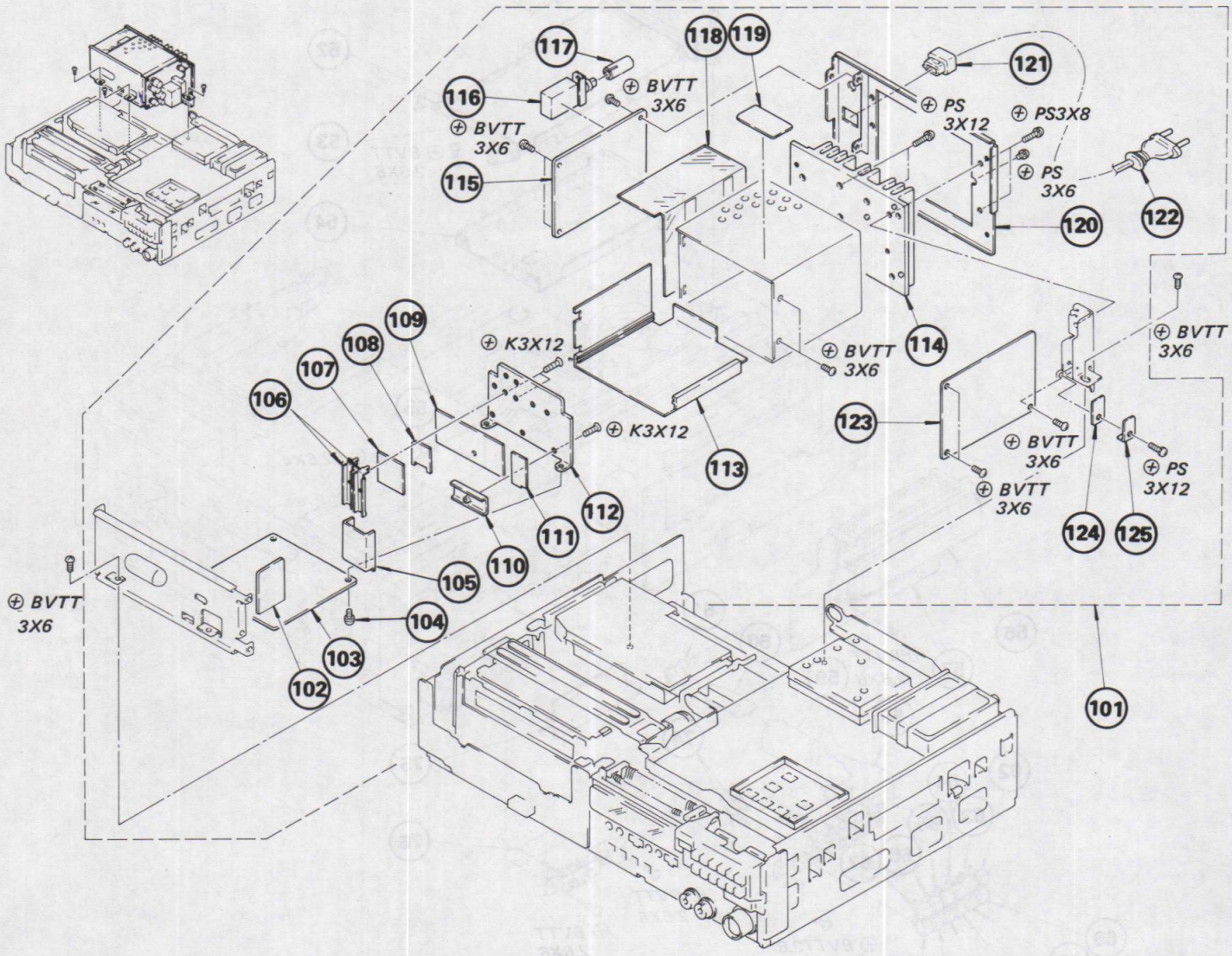
No.	Part No.	Description	Remark
1	3-675-509-00	DOOR, PRESET	
2	X-3670-079-0	CASE ASSY, UPPER	
3	3-703-354-11	SCREW (OS), CASE, CLAW	
4	3-656-301-00	SCREWDRIVER, CONTROL	
5	3-675-563-01	LABEL, MODEL NUMBER	
6	♦:3-656-407-00	LABEL, F MARK	
7	3-675-535-00	PANEL, REAR	
8	X-3670-086-0	PANEL ASSY, FRONT	9
9	3-674-377-00	BUTTON, SLIDE	
10	X-3670-085-0	DOOR ASSY, FRONT	
11	♦:X-3670-091-0	PLATE ASSY, BOTTOM	

(2) MAIN ASSEMBLY 1



No.	Part No.	Description	Remark
51	♣:3-675-568-00	LID, UPPER, RP SHIELD CASE	
52	♣:A-6711-356-A	RP-7 BOARD, COMPLETE	
53	♣:3-675-567-00	CASE (MAIN), SHIELD, RP	
54	♣:X-3670-092-0	LID ASSY, BOTTOM, RP SHIELD CASE	
55	♣:1-607-769-00	TM-32 BOARD	
56	♣:1-607-767-00	TM-30 BOARD	
57	♣:1-607-768-00	TM-31 BOARD	
58	♣:3-675-542-00	HOLDER, CHANNEL BUTTON	
59	♣:4-342-117-00	CASE, SHIELD (MAIN), R	
60	♣:1-606-794-00	N BOARD	
61	♣:4-342-118-00	LID, SHIELD CASE, R	
62	2-364-706-01	BUTTON (1), CHANNEL	
63	2-364-715-01	BUTTON (2), CHANNEL	
64	2-364-716-01	BUTTON (3), CHANNEL	
65	2-364-717-01	BUTTON (4), CHANNEL	
66	2-364-718-01	BUTTON (5), CHANNEL	
67	3-675-529-00	BUTTON (10, 20), CHANNEL	
68	3-675-531-00	BUTTON (6) (VT), CHANNEL	
69	2-364-720-01	BUTTON (7), CHANNEL	
70	2-364-721-01	BUTTON (8), CHANNEL	
71	2-364-722-01	BUTTON (9), CHANNEL	
72	3-675-532-00	BUTTON (0), CHANNEL	
73	3-675-529-11	BUTTON (10, 20), CHANNEL	
74	3-669-662-00	CAP (A), BUTTON	
75	♣:1-607-766-00	CH-10 BOARD	
76	♣:1-607-774-00	HM-1 BOARD	

(3) POWER SUPPLY (SR-11E) ASSEMBLY

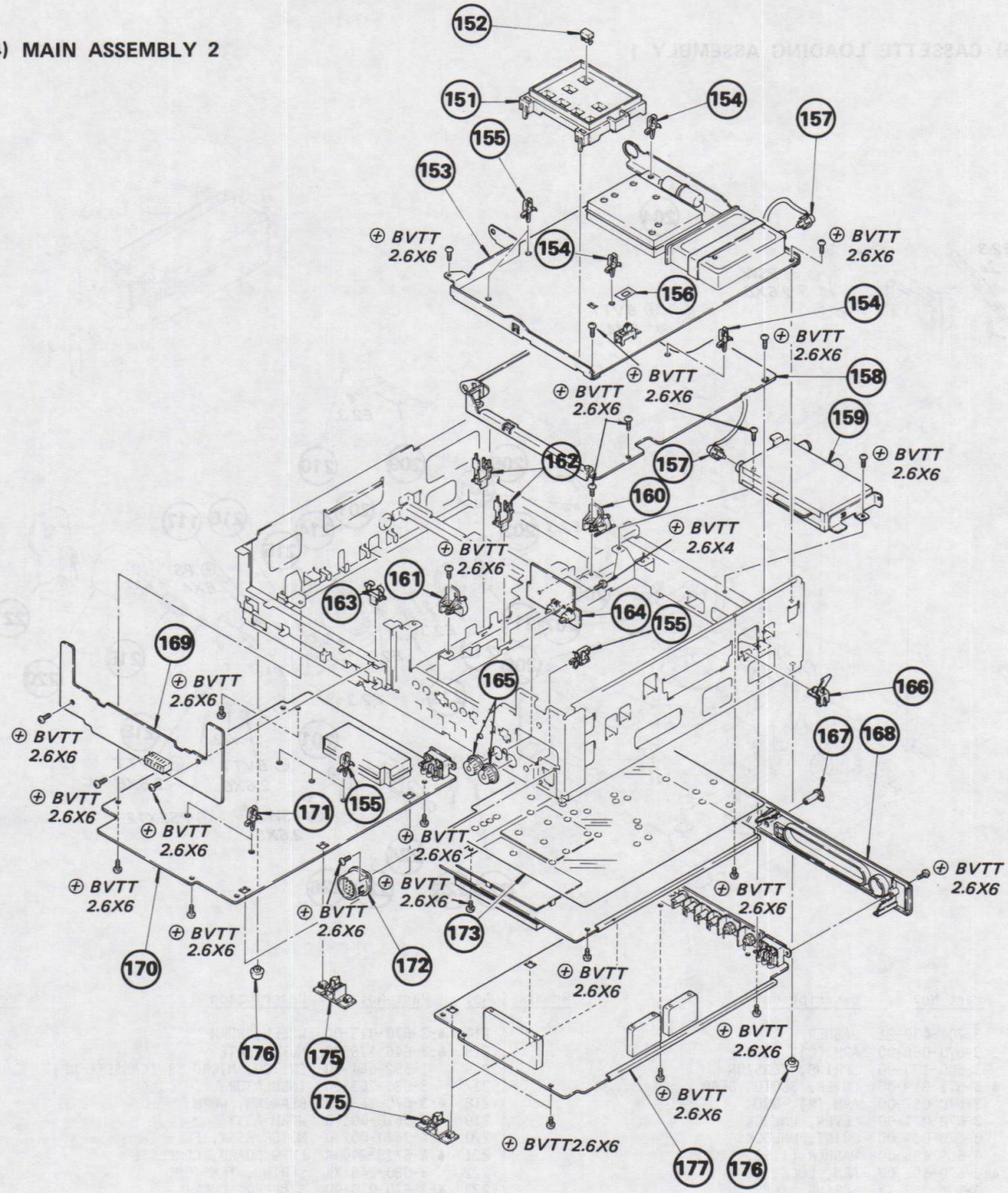


No.	Part No.	Description	Remark
101	⚠1-413-105-11	REGURATOR, SWITCHING	102-125
102	♦:1-607-790-11	C BOARD	
104	2-430-772-01	SCREW, +PSW 3X8	
105	2-430-267-01	COVER, INSULATING	
106	♦:2-430-799-01	RETAINER, TRANSISTOR	
107	2-430-209-01	SHEET, RUBBER	
108	2-430-944-01	PLATE, COPPER	
109	2-430-271-01	SHEET, RUBBER	
110	♦:2-430-746-01	RETAINER, DIODE	
111	2-430-270-01	SHEET, RUBBER	
112	2-430-943-01	HEAT SINK	
113	♦:2-430-266-01	HOLDER, PCB	

No.	Part No.	Description	Remark
114	2-430-942-01	HEAT SINK	
115	♦:1-607-792-11	F BOARD	
116	⚠1-553-834-11	PUSH SWITCH	
117	4-334-115-01	KNOB, CLOCK-D	
118	2-430-268-01	COVER, PC BOARD F	
119	2-439-042-01	LABEL, MODEL NUMBER	
120	♦:2-403-497-01	PANEL	
121	⚠ 3-703-244-02	STOPPER, CODE	
122	⚠1-534-817-12	CODE, POWER	
123	♦:1-607-791-11	D BOARD	
124	2-430-269-01	SHEET, RUBBER	
125	♦:2-430-945-01	RETAINER, IC	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

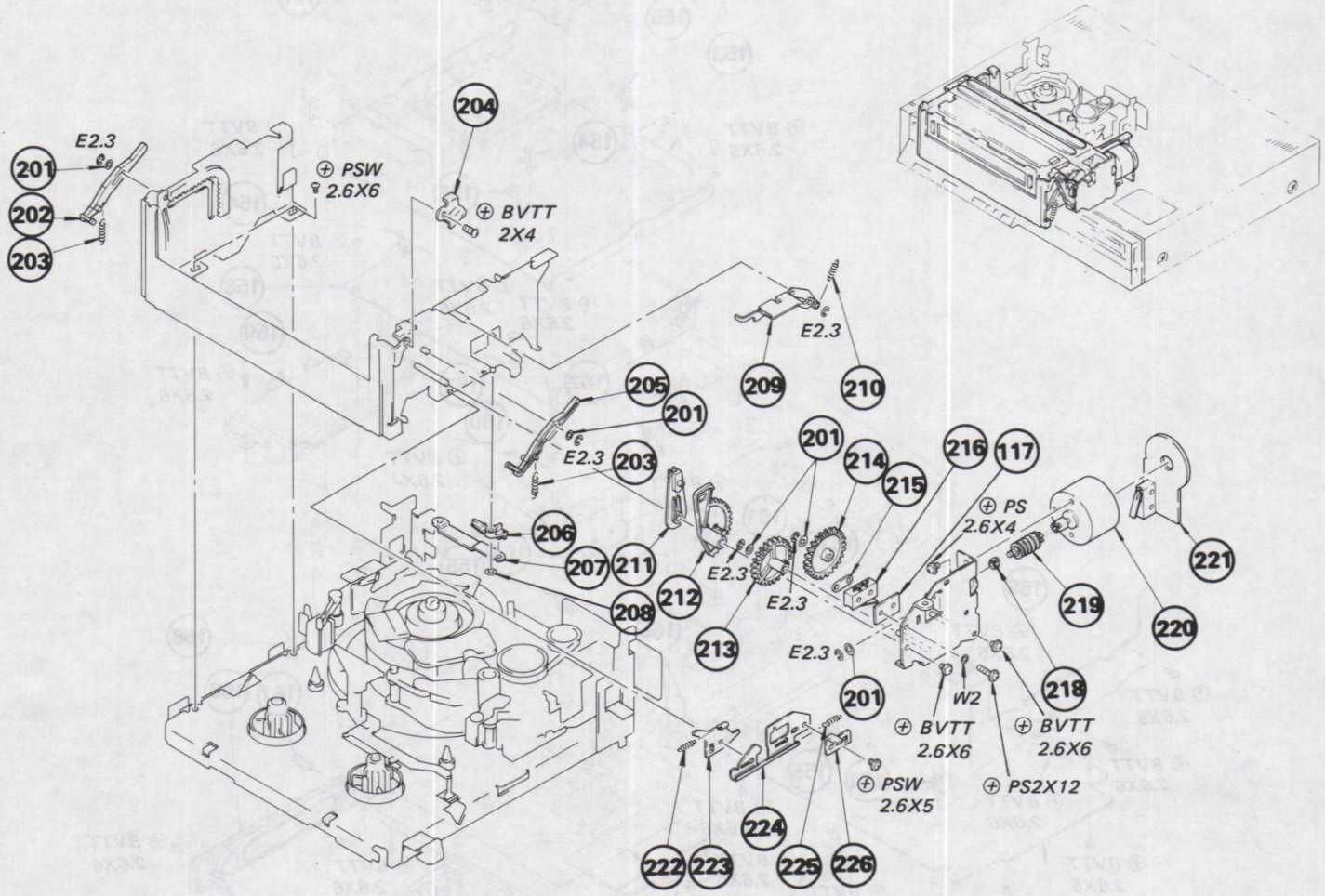
(4) MAIN ASSEMBLY 2



No.	Part No.	Description	Remark
151	A-6734-153-A	PANEL ASSY, PRESET	
152	3-662-243-00	BUTTON, PRESET	
153	♣:A-6721-125-A	TU-24 BOARD, COMPLETE	
154	♣:3-644-407-00	CLIP, AC WIRE E	
155	♣:3-655-214-00	CLIP, CABLE	
156	3-662-259-00	CLOTH, MASKING	
157	♣:1-555-716-61	CABLE, PIN	
158	♣:A-6715-154-A	JR-1 BOARD, COMPLETE	
159	1-464-184-00	MODULATOR, RF (RBM-110-E)	
160	♣:3-674-386-00	HINGE (B), JR	
161	♣:3-674-385-00	HINGE (A), JR	
162	♣:3-701-822-00	HOLDER, WIRE	
163	♣:4-310-385-00	HOLDER, WIRE	
164	♣:1-607-770-00	SW-11 BOARD	

No.	Part No.	Description	Remark
165	3-675-520-00	BUTTON, TRACK CONTROL	
166	♣:4-308-891-00	SUPPORTER, CHASSIS	
167	3-670-149-00	KNOB, V SYNCHRONOUS	
168	3-675-537-00	PANEL, CONNECTOR	
169	♣:A-6717-276-A	FU-5 BOARD, COMPLETE	
170	♣:A-6715-153-A	SS-11 BOARD, COMPLETE	
171	♣:4-309-753-01	CLIP, CABLE	
172	♣:1-933-483-00	HARNESS (CA-5)	
173	♣:3-675-570-00	SHEET, INSULATING	
174	♣:A-6711-135-A	AM-1 BOARD, COMPLETE	
175	♣:3-671-187-00	CLIP, ANCHOR	
176	3-670-155-00	LEG	
177	♣:A-6711-355-A	RV-7 BOARD, COMPLETE	

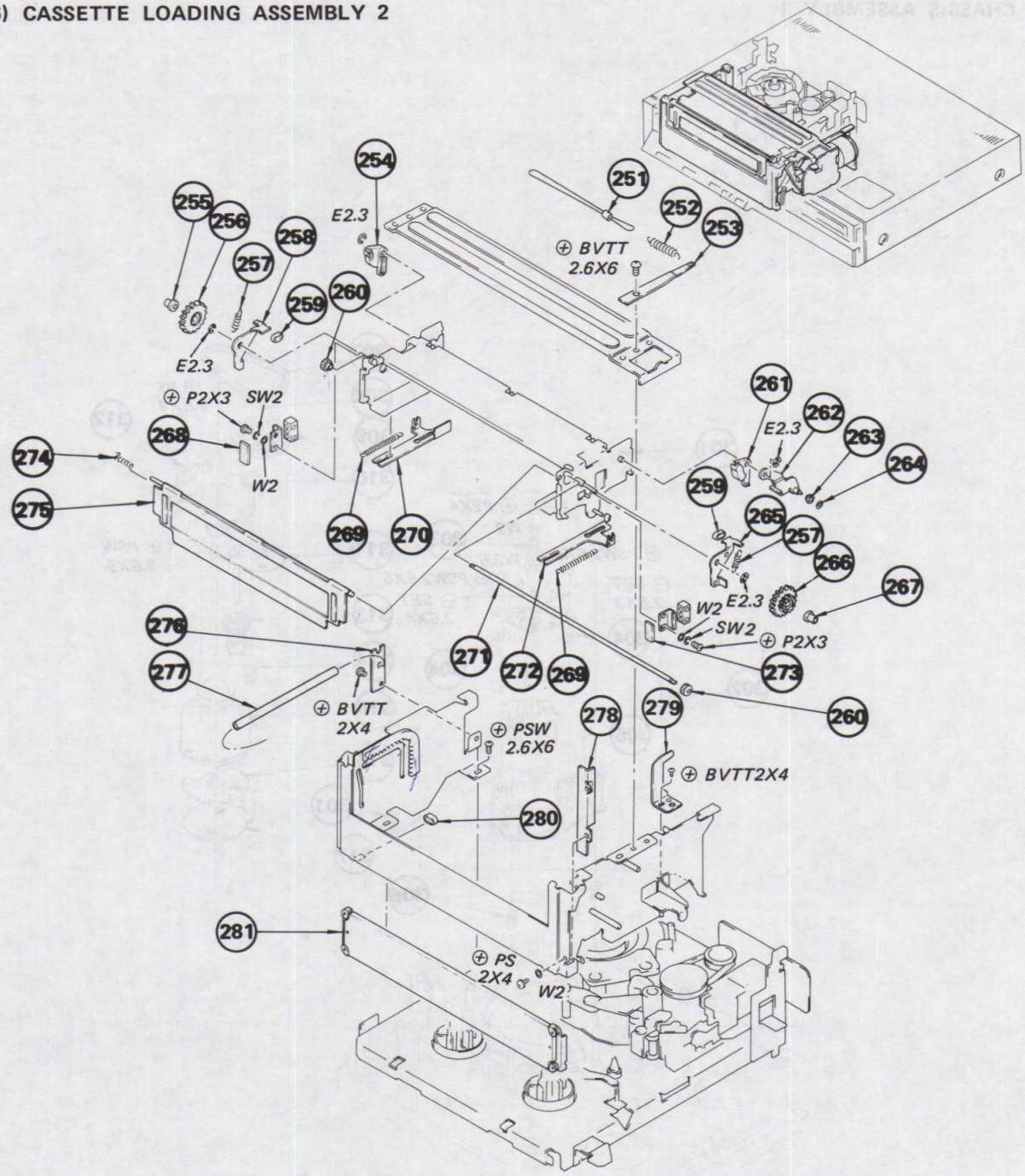
(5) CASSETTE LOADING ASSEMBLY 1



No.	Part No.	Description	Remark
201	3-701-439-21	WASHER	
202	3-670-056-00	ARM (L), DOOR	
203	3-500-130-00	SPRING, TENSION	
204	♦:3-671-819-00	COVER, SECTOR GEAR	
205	3-670-057-00	ARM (R), DOOR	
206	3-670-001-00	LEVER, UNLOCK	
207	3-670-034-00	JOINT, UNLOCK	
208	3-669-465-00	WASHER (1.5), STOPPER	
209	♦:3-670-152-00	ARM, LOCK, UP	
210	3-536-767-XX	SPRING, TENSION	
211	3-670-136-00	ARM, HOLDER DRIVING	
ℓ 212	♦:3-670-151-00	GEAR, SECTOR	
ℓ 213	3-670-016-00	GEAR (A)	

No.	Part No.	Description	Remark
214	♦:3-670-015-00	WHEEL, WORM	
215	♦:3-646-476-00	NUT, PLATE	
216	1-552-664-00	SWITCH, MICRO S1 (CASSETE UP)	
217	3-534-263-00	INSULATOR	
218	♦:3-670-168-00	BEARING, WORM	
219	X-3670-001-0	WORM ASSY	
220	X-3670-002-0	MOTOR ASSY, FL	
221	♦:A-6728-246-A	LM-9 BOARD, COMPLETE	
222	3-530-248-XX	SPRING, TENSION	
223	♦:3-670-010-00	STOPPER, LOCK	
224	♦:3-670-009-00	PLATE, LOCK	
225	3-630-615-XX	SPRING, TENSION	
226	♦:3-670-011-00	PLATE, ADJUSTMENT, CD	

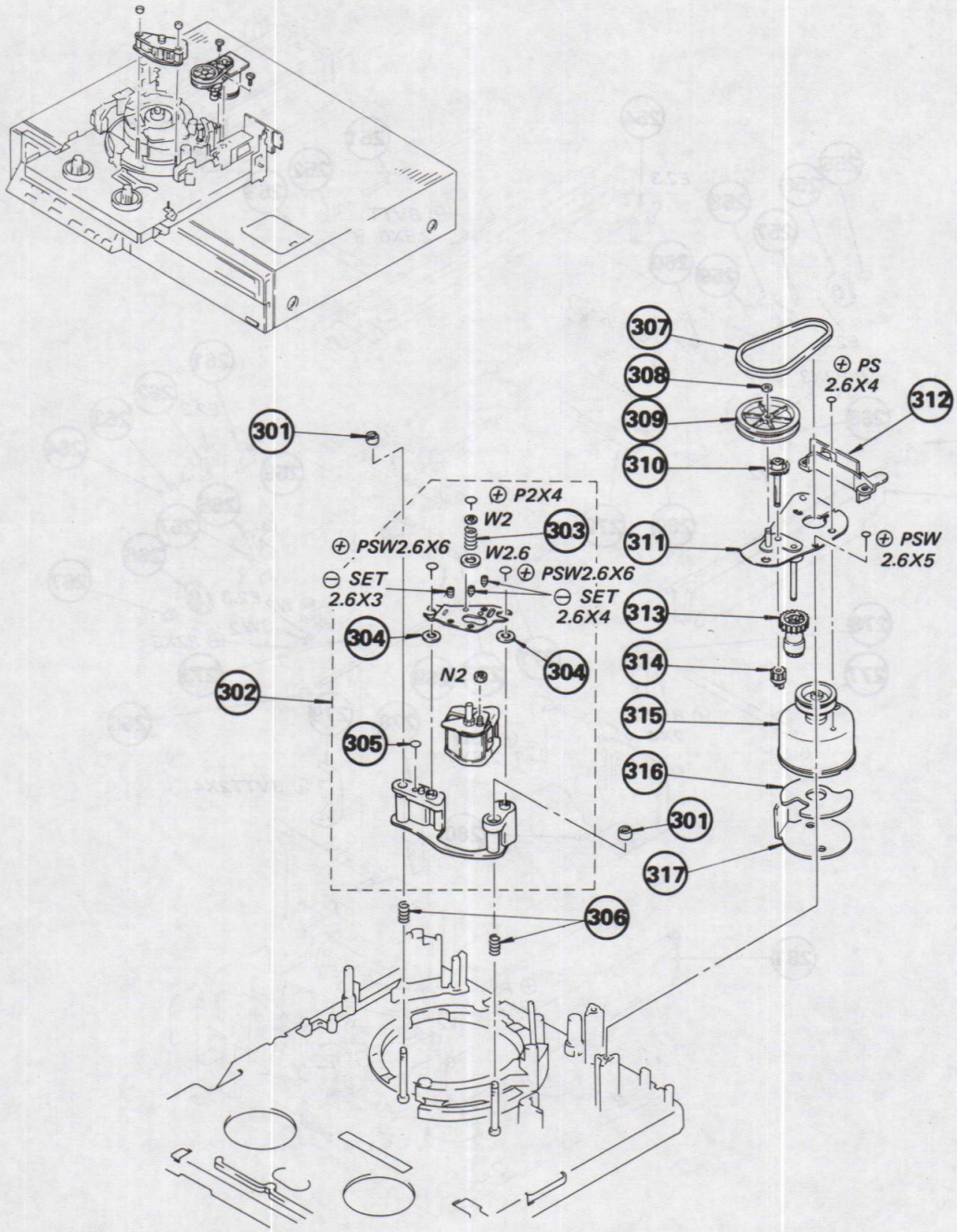
(6) CASSETTE LOADING ASSEMBLY 2



No.	Part No.	Description	Remark
251	3-671-863-00	STRING, PULL, WIRE	
252	3-535-021-00	SPRING, TENSION	
253	3-671-864-00	PLATE, SPRING HOOK	
254	3-670-003-00	CAM (L), C-IN	
255	3-670-018-00	ROLLER, GUIDE	
256	3-670-006-00	GEAR (E)	
257	3-670-169-00	SPRING, TENSION	
258	♣:3-670-031-00	RETAINER (L), CASSETTE	
259	♣:3-646-334-00	CUSHION	
260	3-670-007-00	GEAR (C)	
261	3-670-004-00	CAM (R), C-IN	
262	♣:X-3670-005-0	ARM ASSY, OPEN LID	
263	3-670-054-00	ROLLER, OPEN LID	
264	3-669-465-00	WASHER (1.5), STOPPER	
265	♣:3-670-041-00	RETAINER (R), CASSETTE	
266	3-670-005-00	GEAR (B)	

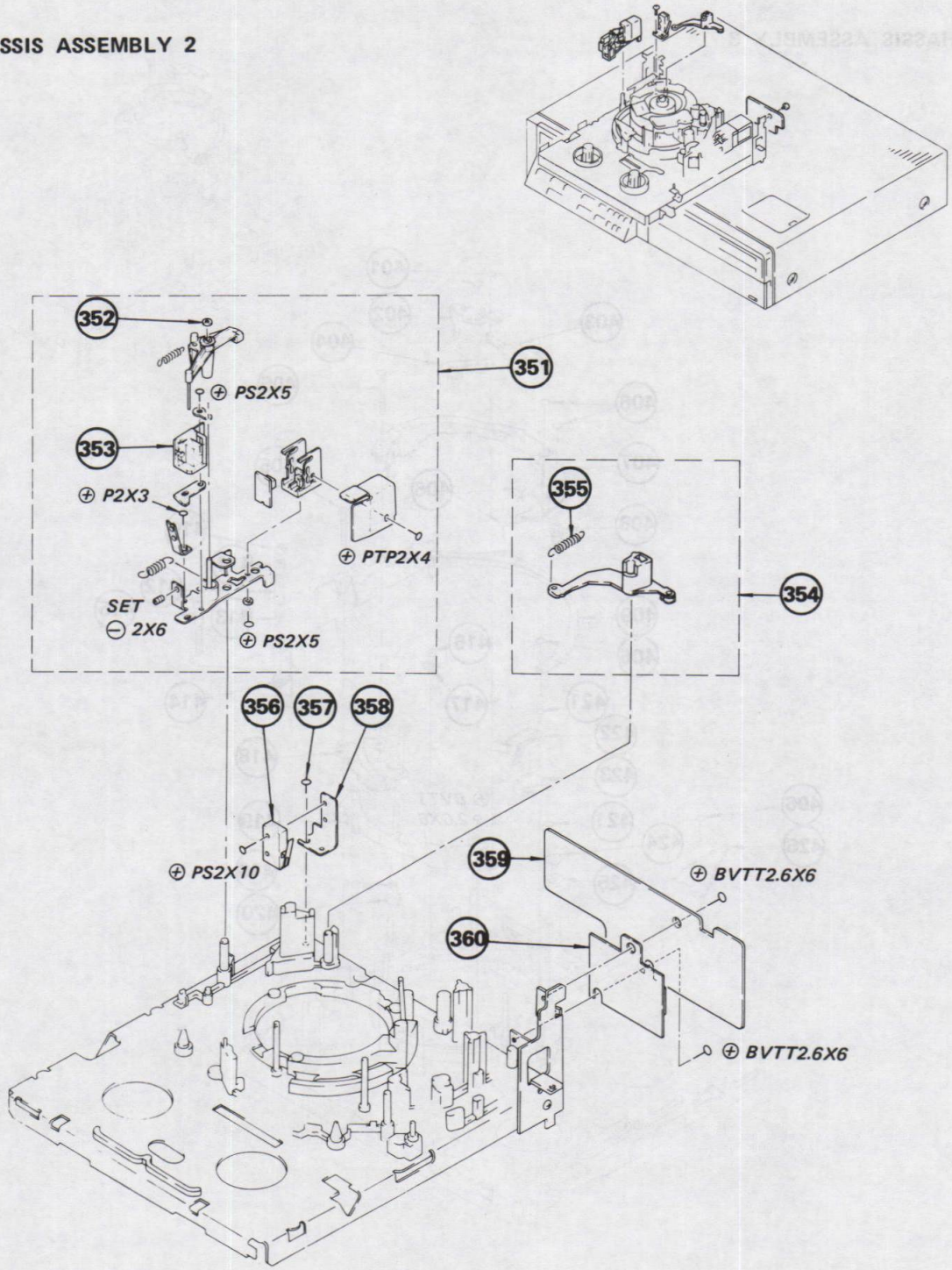
No.	Part No.	Description	Remark
267	3-671-892-00	ROLLER (M), GUIDE	
268	♣:1-605-111-13	CI-2 BOARD	
269	3-489-310-XX	SPRING, TENSION	
270	♣:3-670-036-00	PLATE (L), SLIDE, C	
271	♣:3-670-053-00	SHAFT, JOINT	
272	♣:3-670-037-00	PLATE (R), SLIDE, C	
273	♣:1-605-112-13	CI-3 BOARD	
274	3-670-058-00	SPRING, LEAF	
275	3-670-150-21	PLATE, BLIND	
276	♣:A-6728-247-A	RL-4 BOARD, COMPLETE	
277	♣:3-670-170-00	TUBE, RUBBER	
278	♣:3-670-032-00	RAIL (R)	
279	♣:3-670-012-00	OPEN LID	
280	3-573-469-00	RETAINER, LEAD, SD	
281	X-3670-083-0	DOOR ASSY, CASSETTE	

(7) CHASSIS ASSEMBLY 1



No.	Part No.	Description	Remark
301	3-669-318-00	NUT, ADJUSTMENT, GUIDE	
302	A-6761-049-A	ACE ASSY (S-2)	303,304,305
303	♦:3-669-316-00	SPRING, COMPRESSION	
304	3-669-598-00	WASHER, CTL	
305	3-669-480-11	+ PTPWH 2	
306	3-669-317-00	SPRING, COMPRESSION	
307	3-669-327-00	BELT, RUBBER	
308	3-669-465-00	WASHER (1.5), STOPPER	
309	X-3670-087-0	PULLEY ASSY, GEAR	
310	3-669-332-00	GEAR (BA)	
311	X-3670-088-0	PC BOARD ASSY (D), MOTOR, L	
312	♦:3-671-826-00	CLAMP (M), HARNESS	
313	X-3669-321-0	GEAR (C) ASSY	
314	3-669-333-00	GEAR (BC)	
315	A-6737-090-A	MOTOR ASSY, L	
316	♦:1-605-071-00	LM-B BOARD	
317	♦:3-669-613-00	INSULATOR, L MOTOR	

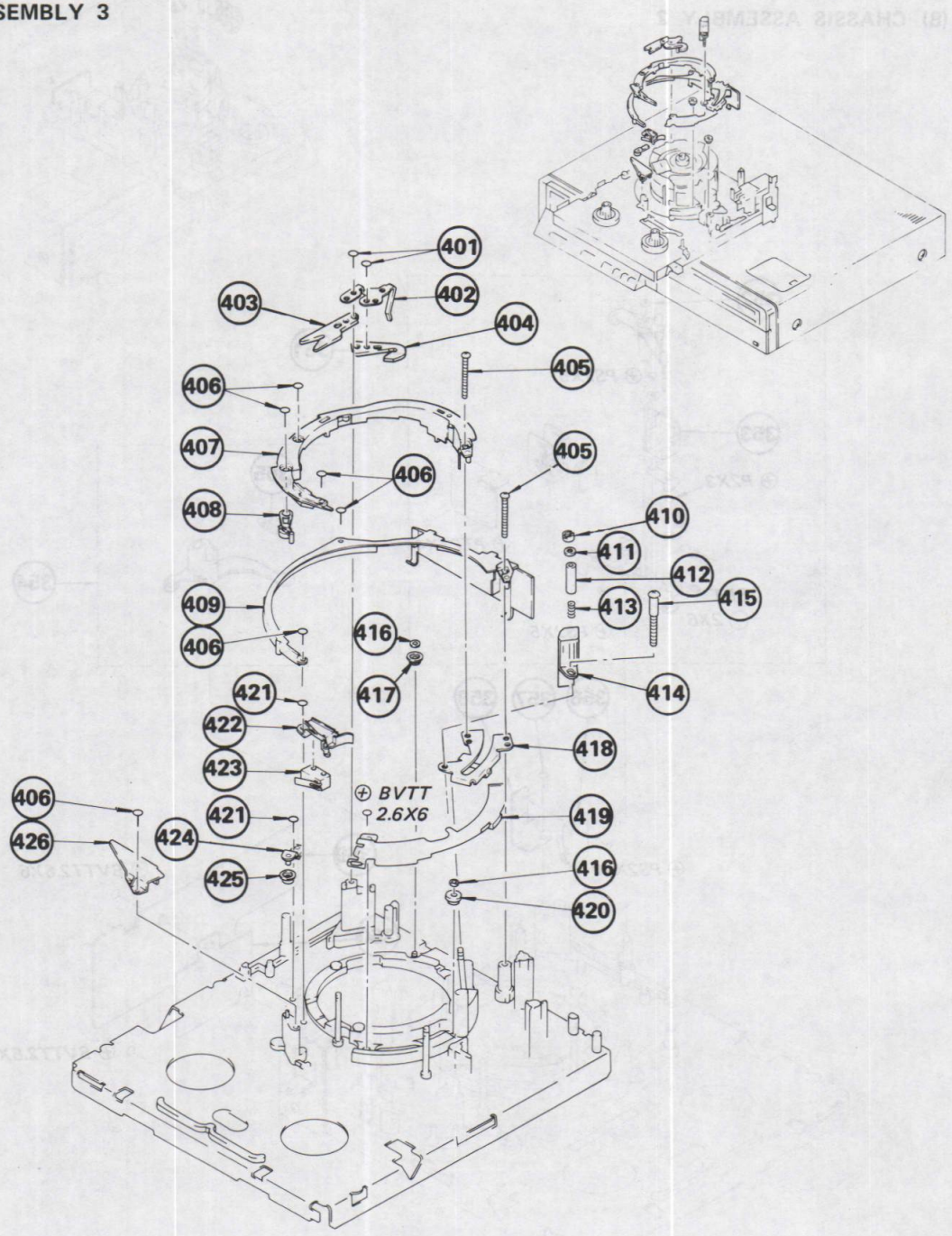
(8) CHASSIS ASSEMBLY 2



No.	Part No.	Description	Remark
351	A-6742-041-A	TP ASSY	352,353
352	3-669-465-00	WASHER (1.5), STOPPER	
353	1-235-054-00	COIL, SENSOR, S	
354	X-3669-351-4	ARM ASSY, LOCK	355
355	3-531-860-00	SPRING, TENSION	

No.	Part No.	Description	Remark
356	1-553-539-00	SWITCH, MICRO S2 (THREADING END)	
357	3-669-607-11	+PSW (SMALL ROUND) (2.6)	
358	♦:3-672-542-00	BRACKET, SWITCH, LE	
359	♦:1-607-772-00	RL-6 BOARD	
360	♦:3-675-549-00	INSULATOR, RL-6	

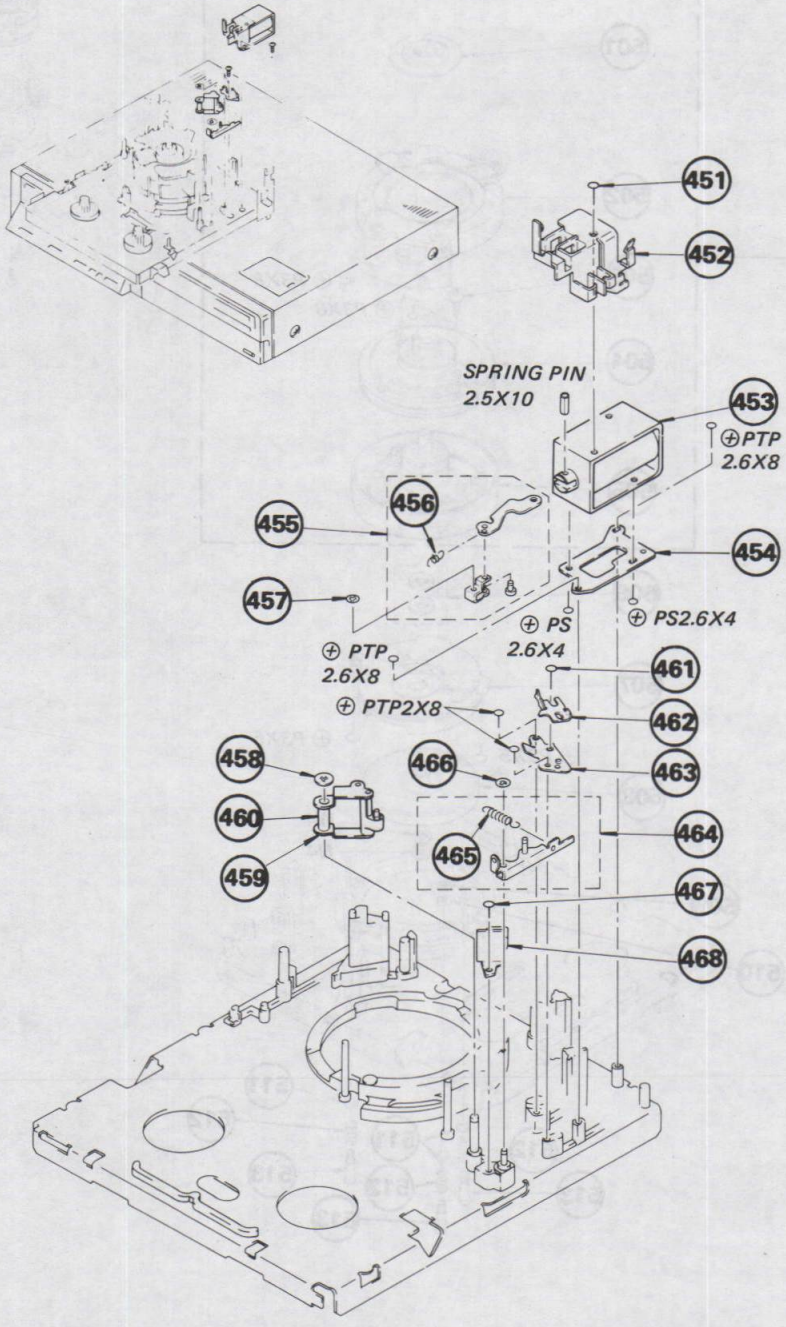
(9) CHASSIS ASSEMBLY 3



No.	Part No.	Description	Remark
401	3-669-480-00	+ PTPWH 2	
402	♦:3-672-540-00	PLATE, GROUND, TAPE GUIDE	
403	♦:3-669-618-00	PLATE (2), ADJUST	
404	♦:3-672-507-00	PLATE (3-1), ADJUSTMENT	
405	3-669-466-00	SCREW (M 2.6)	
406	3-669-480-11	+ PTPWH 2	
407	♦:3-669-584-00	GUIDE (1), SHUTTLE	
408	X-3669-327-0	ARM ASSY, SWITCH, ULE	
409	♦:3-669-585-00	GUIDE (2), SHUTTLE	
410	3-669-446-00	NUT, GUIDE, NO. 6	
411	3-669-447-00	FLANGE, GUIDE, NO. 6	
412	3-669-445-00	SPACER, GUIDE, NO. 6	
413	3-669-615-00	SPRING, COMPRESSION	

No.	Part No.	Description	Remark
414	8-825-508-10	HEAD, FE	
415	3-669-606-00	SCREW (2.6)	
416	3-669-465-00	WASHER (1.5), STOPPER	
417	3-669-630-00	ROLLER (C), RING	
418	♦:X-3669-313-0	BASE ASSY, SLANT	
419	♦:3-669-477-00	LINER, LINK, PIN	
420	3-669-597-00	ROLLER (B), RING	
421	3-669-607-11	+PSW (SMALL ROUND) (2.6)	
422	♦:3-669-355-00	HOLDER, SWITCH, ULE	
423	1-553-718-00	SWITCH, MICRO S4 (UNTHREADING END)	
424	♦:X-3669-329-0	PLATE ASSY, ADJUSTMENT	
425	3-669-360-00	ROLLER, RING	
426	♦:3-669-476-04	PLATE, GUIDE	

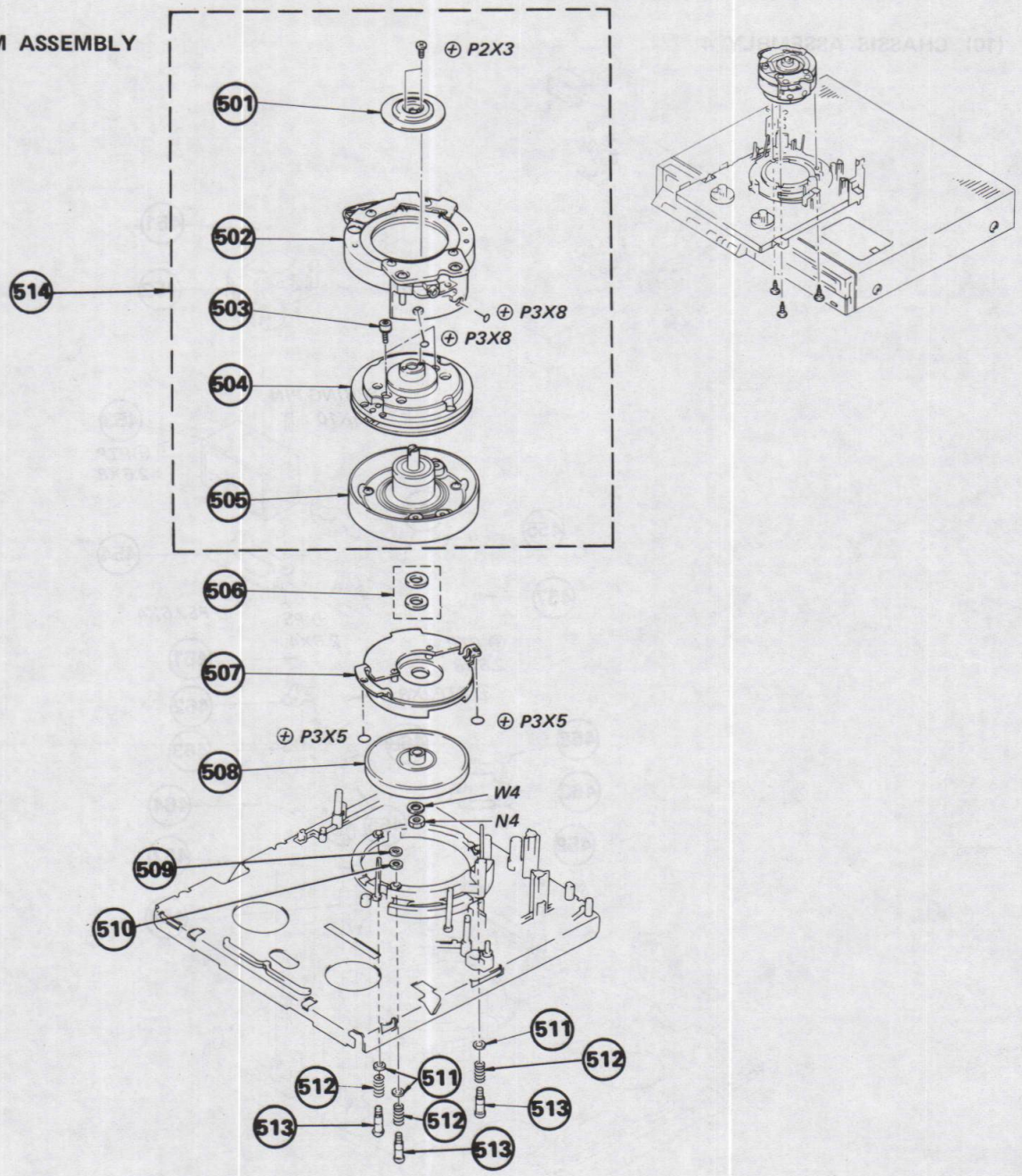
(10) CHASSIS ASSEMBLY 4



No.	Part No.	Description	Remark
451	3-669-607-11	+PSW (SMALL ROUND) (2.6)	
452	♣:3-671-827-00	CLAMP (D), HARNESS	
453	⚠.1-454-282-11	SOLENOID, PLUNGER (PINCH ROLLER)	
454	♣:3-669-459-00	BRACKET, SOLENOID	
455	X-3670-062-0	ARM ASSY, PINCH SOLENOID	456
456	3-669-440-00	SPRING, TENSION	
457	3-669-465-00	WASHER (1.5), STOPPER	
458	3-669-596-00	WASHER (2.3), STOPPER	
459	♣:X-3670-059-2	ARM ASSY, PINCH PRESS	460
460	♣:3-674-340-02	SLEEVE, GUIDE, NO. 10	
461	3-669-607-00	+PSW (SMALL ROUND) 2.6	
463	♣:3-669-349-00	PLATE, LOCK, T	
464	♣:X-3670-057-0	ARM ASSY, PINCH LIMITTER	465
465	3-465-159-XX	SPRING, TENSION	
466	3-669-595-00	WASHER (2), STOPPER	
467	3-669-480-11	+ PTPWH 2	
468	1-235-055-00	COIL SENSOR, T	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

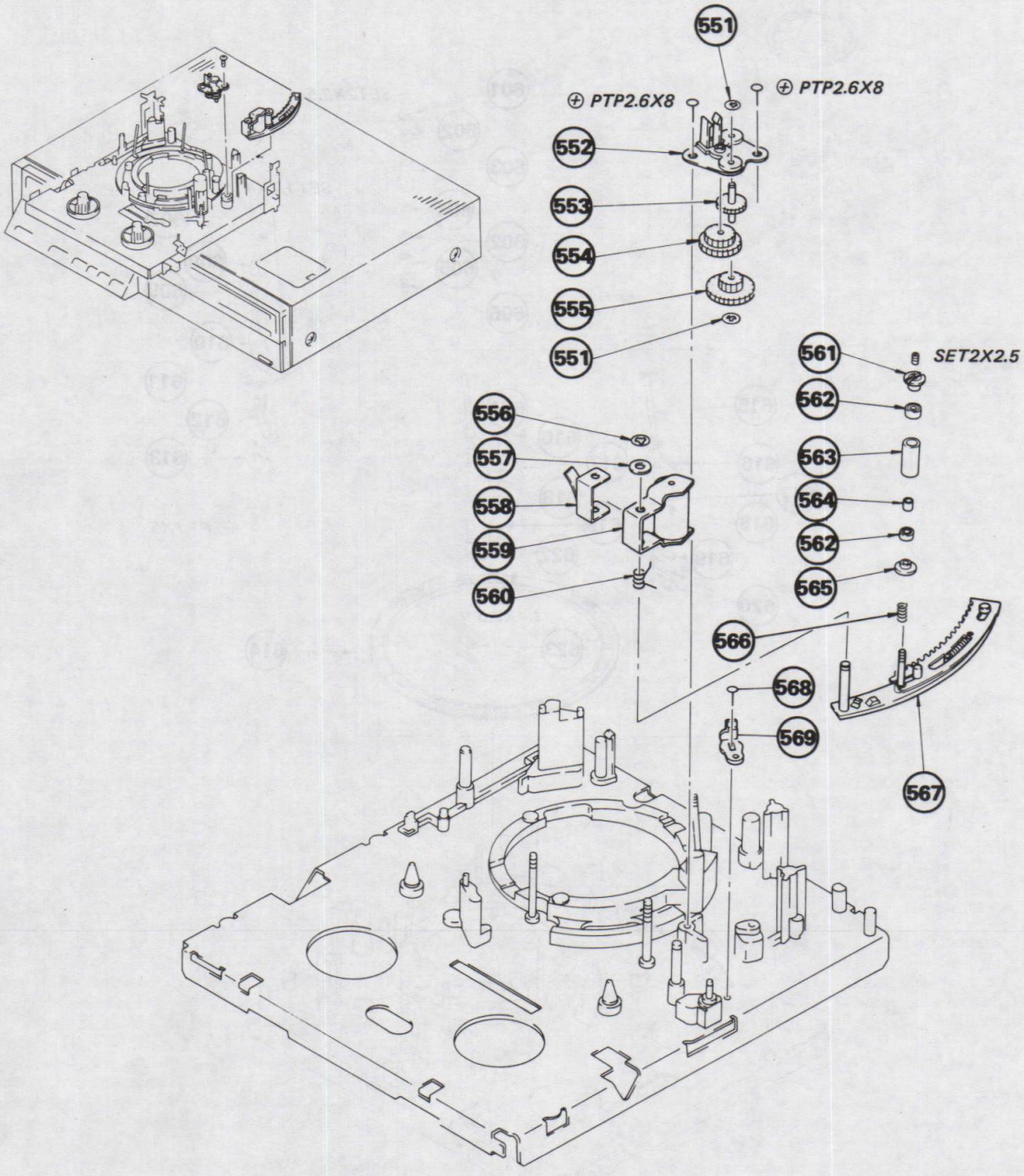
(11) DRUM ASSEMBLY



No.	Part No.	Description	Remark
501	♦:X-3669-106-0	DAMPER ASSY	
502	A-6760-101-A	DRUM ASSY, UPPER	
503	3-669-157-00	BOLT (WASHER) (2.6X8)	
504	A-6762-088-A	DISK ASSY (DSR-21-R)	
505	A-6760-096-A	FRANGE ASSY, DRUM, LOWER	
506	X-3669-105-0	SPACER BLOCK ASSY	
507	X-2621-204-2	STATOR ASSY, D	

No.	Part No.	Description	Remark
508	X-2621-202-0	ROTOR ASSY, D	
509	♦:3-669-462-00	PLATE, ADJUSTMENT, LIMITER, PINCH	
510	♦:3-669-646-00	SPACER, DRUM	
510	♦:3-669-646-11	SPACER, DRUM	
511	3-669-600-11	WASHER, FLAT (3.5)	
512	3-429-123-00	SPRING	
513	3-669-302-00	SCREW, FITTING	
514	A-6050-139-A	DRUM ASSY (DSH-21A-R) 501–505	

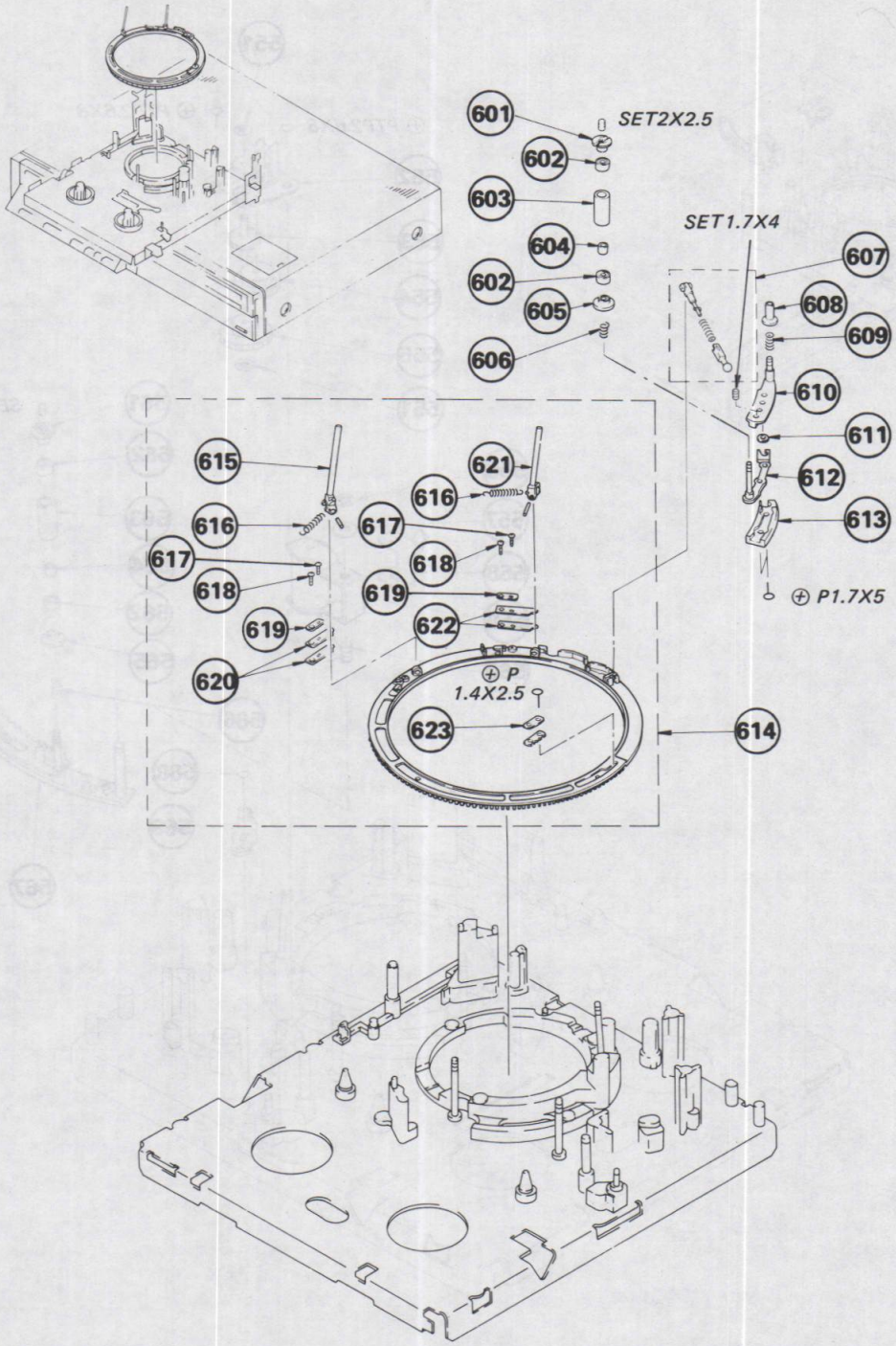
(12) CHASSIS ASSEMBLY 5



No.	Part No.	Description	Remark
551	3-669-465-00	WASHER (1.5), STOPPER	
552	X-3669-326-0	CHASSIS ASSY, GEAR, DRIVE	
553	X-3669-305-0	GEAR (F) ASSY	
554	3-669-338-00	GEAR (E)	
555	3-669-337-00	GEAR (D)	
556	3-669-596-00	WASHER (2.3), STOPPER	
557	3-701-439-01	WASHER	
558	♦:3-674-345-00	SPRING	
559	X-3670-063-0	ARM ASSY, PINCH ROLLER	
560	3-669-444-00	SPRING, TORSION	

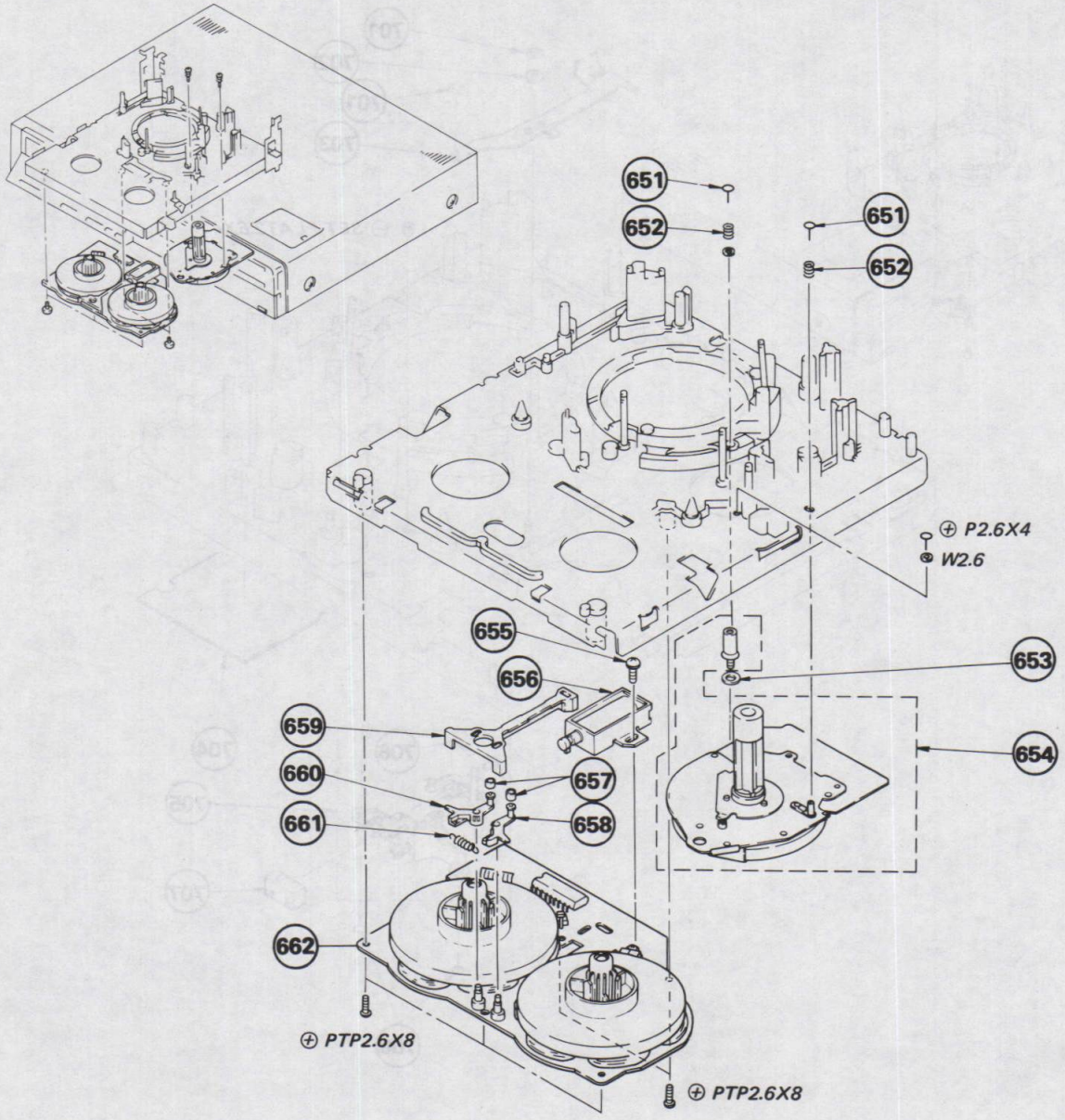
No.	Part No.	Description	Remark
561	3-669-431-00	FLANGE (UPPER), GUIDE	
562	3-669-443-00	BEARING, BALL (NO FLANGE)	
563	3-669-438-00	ROLLER, GUIDE	
564	3-657-841-31	SPACER (DIA. 2)	
565	3-669-432-00	FLANGE (LOWER), GUIDE	
566	3-669-452-00	SPRING, COMPRESSION	
567	♦:X-3669-350-0	GEAR ASSY, SLIDER	
568	3-669-607-31	+PSW (SMALL ROUND) (2.6)	
569	♦:3-669-350-00	STOPPER, SLIDER	

(13) CHASSIS ASSEMBLY 6



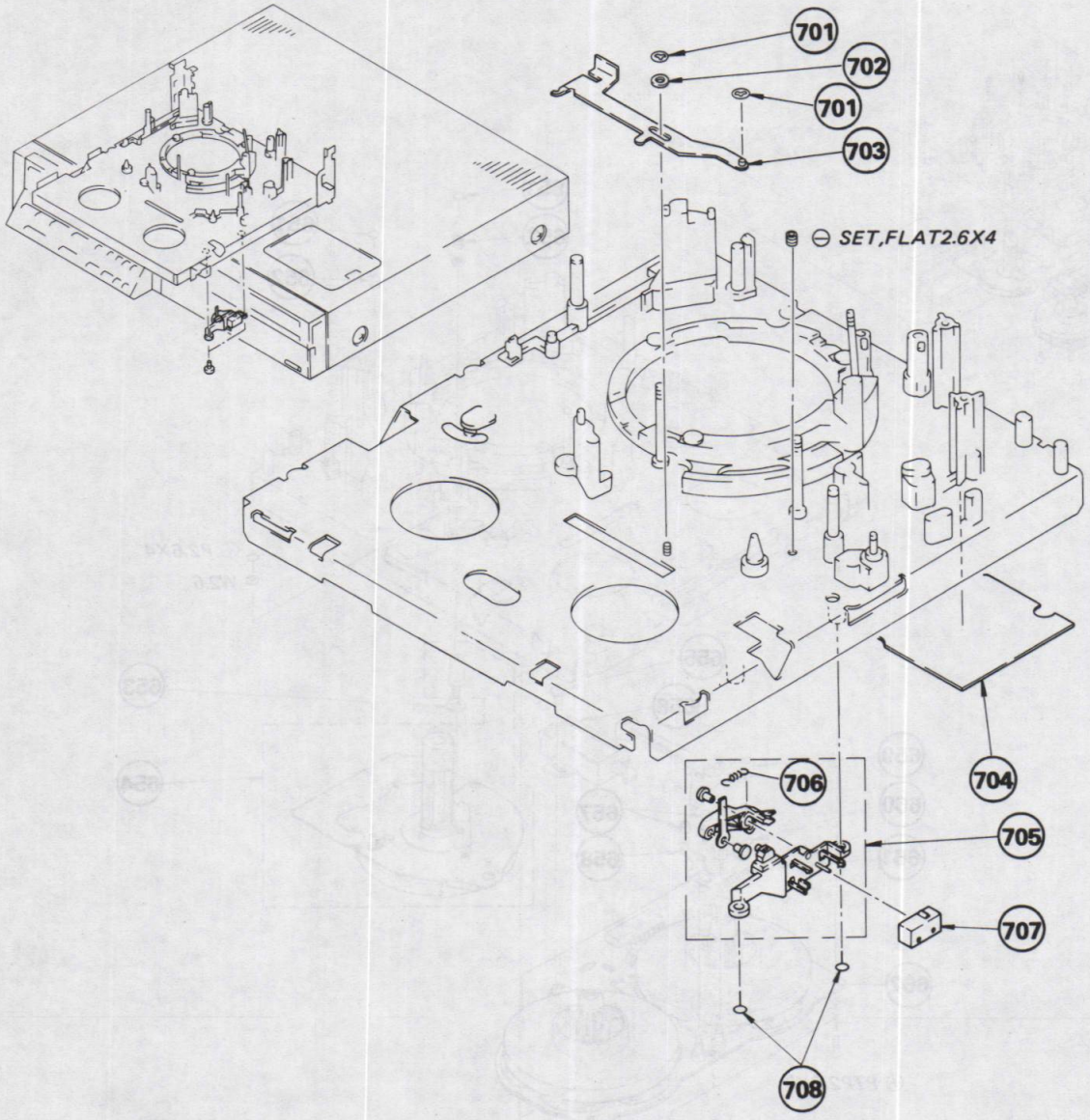
No.	Part No.	Description	Remark
601	3-669-431-00	FLANGE (UPPER), GUIDE	
602	3-669-443-00	BEARING, BALL (NO FLANGE)	
603	3-669-668-00	ROLLER, GUIDE	
604	3-657-841-31	SPACER (DIA. 2)	
605	3-669-667-00	FLANGE (LOWER), GUIDE	
606	3-669-666-00	SPRING, COMPRESSION	
607	X-3669-316-0	ROD ASSY, PUSH	
608	♦:3-669-643-00	SLEEVE, GUIDE, NO. 4	
609	3-672-531-00	SPRING, COMPRESSION	
610	♦:X-3669-314-0	PLATE ASSY, SHUTTLE	
611	3-701-437-11	WASHER	
612	♦:X-3669-315-0	HEAD ASSY, TILT	
613	♦:3-669-540-00	BLOCK, SHUTTLE	
614	X-3669-353-0	RING ASSY, THREADING, S	615-623
615	♦:X-3669-303-4	GUIDE ASSY, NO. 2	
616	3-669-473-00	SPRING, TENSION	
617	3-669-478-00	SCREW (1X3), TAPPING	
618	3-669-479-11	SCREW (1.4X3.5), TAPPING	
619	♦:3-669-472-00	RETAINER, SPRING, LEAF	
620	3-669-470-02	SPRING (2), LEAF	
621	♦:X-3669-304-5	GUIDE ASSY, NO. 3	
622	3-669-471-03	SPRING (3), LEAF, LIMITER	
623	♦:3-669-616-00	RETAINER	

(14) CHASSIS ASSEMBLY 7



No.	Part No.	Description	Remark
651	3-669-633-00	SCREW, + PW2	
652	3-669-602-00	SPRING, COMPRESSION	
653	3-669-697-00	SPACER, CAPSTAN	
654	8-838-027-11	MOTOR, DC (BHF-1901B)	
655	3-669-663-00	+PSW 2.6	
656	1-454-281-31	SOLENOID, PLUNGER (BRAKE)	
657	3-669-305-00	BUSHING	
658	♣:3-669-303-00	BRAKE, T	
659	♣:3-669-530-00	ARM, BRAKE	
660	♣:3-669-304-00	BRAKE, S	
661	3-491-360-00	SPRING, TENSION	
662	8-838-021-21	MOTOR, DC (BHF-1800C)	

(15) CHASSIS ASSEMBLY 8



No.	Part No.	Description	Remark
701	3-669-595-00	WASHER (2), STOPPER	
702	3-701-438-21	WASHER	
703	♦:X-3670-021-0	PLATE ASSY, UNLOCK	
704	♦:3-669-599-00	INSULATOR	
705	♦:X-3669-323-0	MR ASSY	706
706	♦:3-669-411-00	SPRING, TENSION	
707	1-553-717-00	SWITCH, MICRO S3 (REC PROOF)	
708	3-669-480-11	+ PTPWH 2	

SECTION 5

ELECTRICAL PARTS LIST

RV-7 **N**

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
- MF : μF, PF : μμF

RESISTORS
- All resistors are in ohms
- F : nonflammable

COILS
- MMH : mH, UH : μH

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description			Remark
	♦:1-606-794-00	N BOARD *******			
		CAPACITOR			
C1	1-123-617-00	ELECT	10MF	20%	16V
C2	1-123-617-00	ELECT	10MF	20%	16V
C3	1-123-617-00	ELECT	10MF	20%	16V
C4	1-161-019-00	CERAMIC	0.033MF	10%	25V
C5	1-108-567-00	MYLAR	0.0033MF	5%	50V
C6	1-123-821-00	ELECT	47MF	20%	16V
		DIODE			
D1	8-719-110-32	DIODE PH302B			
		IC			
IC1	8-759-113-73	IC UPC1373H			
		COIL			
L1	1-404-310-00	COIL			
**********					
	♦:A-6711-355-A	RV-7 BOARD, COMPLETE **********			
	1-533-162-00	HOLDER, FUSE			
	1-536-723-00	TERMINAL BOARD, CONTROL PANEL			
		FILTER			
BPF001	1-235-098-00	FILTER, BAND PASS 4.43M			
		CAPACITOR			
C001	1-123-324-00	ELECT	1000MF	20%	16V
C002	1-123-356-00	ELECT	10MF	20%	16V
C003	1-123-356-00	ELECT	10MF	20%	16V
C004	1-123-356-00	ELECT	10MF	20%	16V
C005	1-101-005-00	CERAMIC	0.022MF		50V
C006	1-123-318-00	ELECT	33MF	20%	16V
C007	1-123-318-00	ELECT	33MF	20%	16V
C008	1-101-005-00	CERAMIC	0.022MF		50V
C009	1-101-005-00	CERAMIC	0.022MF		50V
C010	1-102-936-00	CERAMIC	3PF	0.25PF	50V
C011	1-101-888-00	CERAMIC	68PF	5%	50V
C012	1-123-381-00	ELECT	2.2MF	20%	50V
C013	1-102-962-00	CERAMIC	30PF	5%	50V
C014	1-123-330-00	ELECT	22MF	20%	16V
C015	1-101-004-00	CERAMIC	0.01MF		50V
C016	1-123-330-00	ELECT	22MF	20%	16V
C017	1-101-001-00	CERAMIC	0.001MF		50V
C018	1-101-001-00	CERAMIC	0.001MF		50V
C019	1-123-381-00	ELECT	2.2MF	20%	50V
C020	1-123-381-00	ELECT	2.2MF	20%	50V

Ref.No.	Part No.	Description			Remark
C021	1-101-006-00	CERAMIC	0.047MF		50V
C022	1-123-328-00	ELECT	4.7MF	20%	25V
C023	1-123-356-00	ELECT	10MF	20%	16V
C024	1-102-965-00	CERAMIC	39PF	5%	50V
C025	1-102-948-00	CERAMIC	11PF	5%	50V
C026	1-102-948-00	CERAMIC	11PF	5%	50V
C027	1-123-318-00	ELECT	33MF	20%	16V
C028	1-123-328-00	ELECT	4.7MF	20%	25V
C029	1-123-318-00	ELECT	33MF	20%	16V
C030	1-123-356-00	ELECT	10MF	20%	16V
C031	1-123-356-00	ELECT	10MF	20%	16V
C032	1-123-328-00	ELECT	4.7MF	20%	25V
C033	1-102-114-00	CERAMIC	470PF	10%	50V
C034	1-101-005-00	CERAMIC	0.022MF		50V
C035	1-102-977-00	CERAMIC	200PF	5%	50V
C036	1-123-318-00	ELECT	33MF	20%	16V
C037	1-102-114-00	CERAMIC	470PF	10%	50V
C038	1-101-059-00	CERAMIC	510PF	5%	50V
C039	1-108-595-00	MYLAR	0.047MF	5%	50V
C040	1-161-063-00	CERAMIC	0.1MF	20%	25V
C041	1-102-973-00	CERAMIC	100PF	5%	50V
C043	1-123-356-00	ELECT	10MF	20%	16V
C044	1-161-063-00	CERAMIC	0.1MF	20%	25V
C045	1-102-947-00	CERAMIC	10PF	5%	50V
C046	1-123-306-00	ELECT	47MF	20%	10V
C047	1-123-328-00	ELECT	4.7MF	20%	25V
C048	1-101-880-00	CERAMIC	47PF	5%	50V
C049	1-123-318-00	ELECT	33MF	20%	16V
C050	1-123-356-00	ELECT	10MF	20%	16V
C051	1-123-318-00	ELECT	33MF	20%	16V
C052	1-123-318-00	ELECT	33MF	20%	16V
C053	1-123-330-00	ELECT	22MF	20%	16V
C054	1-108-557-00	MYLAR	0.0012MF	5%	50V
C055	1-102-117-00	CERAMIC	820PF	10%	50V
C056	1-101-006-00	CERAMIC	0.047MF		50V
C057	1-102-531-00	CERAMIC	150PF	5%	50V
C058	1-101-005-00	CERAMIC	0.022MF		50V
C059	1-123-318-00	ELECT	33MF	20%	16V
C060	1-123-318-00	ELECT	33MF	20%	16V
C061	1-102-117-00	CERAMIC	820PF	10%	50V
C062	1-101-001-00	CERAMIC	0.001MF		50V
C063	1-102-531-00	CERAMIC	150PF	5%	50V
C064	1-123-380-00	ELECT	1MF	20%	50V
C065	1-101-004-00	CERAMIC	0.01MF		50V
C066	1-101-004-00	CERAMIC	0.01MF		50V
C067	1-101-003-00	CERAMIC	0.0047MF		50V
C068	1-101-006-00	CERAMIC	0.047MF		50V
C069	1-101-001-00	CERAMIC	0.001MF		50V
C070	1-123-356-00	ELECT	10MF	20%	16V
C071	1-101-005-00	CERAMIC	0.022MF		50V
C072	1-123-382-00	ELECT	3.3MF	20%	50V
C073	1-123-380-00	ELECT	1MF	20%	50V
C074	1-123-356-00	ELECT	10MF	20%	25V

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Ref.No.	Part No.	Description			Remark
C075	1-123-356-00	ELECT	10MF	20%	25V
C076	1-101-004-00	CERAMIC	0.01MF		50V
C077	1-102-110-00	CERAMIC	220PF	10%	50V
C078	1-101-004-00	CERAMIC	0.01MF		50V
C079	1-102-525-00	CERAMIC	68PF	5%	50V
C080	1-102-525-00	CERAMIC	68PF	5%	50V
C081	1-102-953-00	CERAMIC	18PF	5%	50V
C082	1-101-004-00	CERAMIC	0.01MF		50V
C083	1-101-004-00	CERAMIC	0.01MF		50V
C084	1-101-005-00	CERAMIC	0.022MF		50V
C085	1-102-113-00	CERAMIC	390PF	10%	50V
C086	1-101-005-00	CERAMIC	0.022MF		50V
C087	1-123-318-00	ELECT	33MF	20%	16V
C088	1-123-318-00	ELECT	33MF	20%	16V
C089	1-101-005-00	CERAMIC	0.022MF		50V
C090	1-101-004-00	CERAMIC	0.01MF		50V
C091	1-101-004-00	CERAMIC	0.01MF		50V
C092	1-101-004-00	CERAMIC	0.01MF		50V
C093	1-101-005-00	CERAMIC	0.022MF		50V
C094	1-102-511-00	CERAMIC	13PF	5%	50V
C095	1-101-006-00	CERAMIC	0.047MF		50V
C096	1-101-006-00	CERAMIC	0.047MF		50V
C097	1-123-333-00	ELECT	100MF	20%	16V
C098	1-101-006-00	CERAMIC	0.047MF		50V
C099	1-101-001-00	CERAMIC	0.001MF		50V
C100	1-123-318-00	ELECT	33MF	20%	16V
C101	1-101-006-00	CERAMIC	0.047MF		50V
C102	1-101-006-00	CERAMIC	0.047MF		50V
C103	1-101-001-00	CERAMIC	0.001MF		50V
C104	1-101-005-00	CERAMIC	0.022MF		50V
C105	1-101-001-00	CERAMIC	0.001MF		50V
C106	1-102-512-00	CERAMIC	16PF	5%	50V
C107	1-101-005-00	CERAMIC	0.022MF		50V
C108	1-123-330-00	ELECT	22MF	20%	16V
C109	1-131-341-00	ELECT(SOLID)	0.1MF	10%	25V
C110	1-101-006-00	CERAMIC	0.047MF		50V
C111	1-101-004-00	CERAMIC	0.01MF		50V
C112	1-101-004-00	CERAMIC	0.01MF		50V
C113	1-101-004-00	CERAMIC	0.01MF		50V
C114	1-101-004-00	CERAMIC	0.01MF		50V
C115	1-102-963-00	CERAMIC	33PF	5%	50V
C116	1-101-005-00	CERAMIC	0.022MF		50V
C117	1-123-382-00	ELECT	3.3MF	20%	50V
C118	1-102-520-00	CERAMIC	39PF	5%	50V
C119	1-102-508-00	CERAMIC	10PF	0.5PF	50V
C120	1-161-063-00	CERAMIC	0.1MF	20%	25V
C121	1-101-006-00	CERAMIC	0.047MF		50V
C122	1-101-006-00	CERAMIC	0.047MF		50V
C123	1-101-006-00	CERAMIC	0.047MF		50V
C124	1-101-004-00	CERAMIC	0.01MF		50V
C125	1-101-004-00	CERAMIC	0.01MF		50V
C126	1-102-960-00	CERAMIC	24PF	5%	50V
C127	1-102-960-00	CERAMIC	24PF	5%	50V

Ref.No.	Part No.	Description			Remark
C128	1-101-004-00	CERAMIC	0.01MF		50V
C129	1-161-063-00	CERAMIC	0.1MF	20%	25V
C130	1-101-004-00	CERAMIC	0.01MF		50V
C131	1-123-318-00	ELECT	33MF	20%	16V
C132	1-102-948-00	CERAMIC	11PF	5%	50V
C133	1-101-006-00	CERAMIC	0.047MF		50V
C134	1-102-112-00	CERAMIC	330PF	10%	50V
C135	1-123-328-00	ELECT	4.7MF	20%	25V
C136	1-102-112-00	CERAMIC	330PF	10%	50V
C137	1-102-112-00	CERAMIC	330PF	10%	50V
C138	1-101-005-00	CERAMIC	0.022MF		50V
C140	1-101-004-00	CERAMIC	0.01MF		50V
C141	1-101-005-00	CERAMIC	0.022MF		50V
C142	1-101-005-00	CERAMIC	0.022MF		50V
C143	1-123-318-00	ELECT	33MF	20%	16V
C144	1-123-318-00	ELECT	33MF	20%	16V
C145	1-123-356-00	ELECT	10MF	20%	16V
C146	1-101-006-00	CERAMIC	0.047MF		50V
C147	1-102-511-00	CERAMIC	13PF	5%	50V
C148	1-102-522-00	CERAMIC	51PF	5%	50V
C149	1-102-522-00	CERAMIC	51PF	5%	50V
C150	1-102-511-00	CERAMIC	13PF	5%	50V
C151	1-101-005-00	CERAMIC	0.022MF		50V
C152	1-123-328-00	ELECT	4.7MF	20%	25V
C153	1-101-005-00	CERAMIC	0.022MF		50V
C154	1-123-318-00	ELECT	33MF	20%	16V
C156	1-123-328-00	ELECT	4.7MF	20%	25V
C157	1-101-005-00	CERAMIC	0.022MF		50V
C158	1-101-005-00	CERAMIC	0.022MF		50V
C159	1-123-318-00	ELECT	33MF	20%	16V
C160	1-101-005-00	CERAMIC	0.022MF		50V
C161	1-123-318-00	ELECT	33MF	20%	16V
C162	1-102-960-00	CERAMIC	24PF	5%	50V
C163	1-101-004-00	CERAMIC	0.01MF		50V
C164	1-123-318-00	ELECT	33MF	20%	16V
C165	1-101-005-00	CERAMIC	0.022MF		50V
C166	1-101-006-00	CERAMIC	0.047MF		50V
C167	1-101-884-00	CERAMIC	56PF	5%	50V
C168	1-102-937-00	CERAMIC	4PF	0.25PF	50V
C169	1-101-004-00	CERAMIC	0.01MF		50V
C170	1-101-004-00	CERAMIC	0.01MF		50V
C171	1-123-380-00	ELECT	1MF	20%	50V
C172	1-123-328-00	ELECT	4.7MF	20%	25V
C173	1-123-328-00	ELECT	4.7MF	20%	25V
C174	1-101-004-00	CERAMIC	0.01MF		50V
C175	1-101-884-00	CERAMIC	56PF	5%	50V
C176	1-101-006-00	CERAMIC	0.047MF		50V
C177	1-101-006-00	CERAMIC	0.047MF		50V
C178	1-123-328-00	ELECT	4.7MF	20%	25V
C179	1-101-006-00	CERAMIC	0.047MF		50V
C180	1-123-330-00	ELECT	22MF	20%	16V
C181	1-101-004-00	CERAMIC	0.01MF		50V
C182	1-161-063-00	CERAMIC	0.1MF	20%	25V

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description			Remark
C183	1-161-063-00	CERAMIC	0.1MF	20%	25V
C184	1-123-333-00	ELECT	100MF	20%	16V
C185	1-123-311-00	ELECT	1000MF	20%	10V
C186	1-123-356-00	ELECT	10MF	20%	16V
C187	1-102-821-00	CERAMIC	360PF	5%	50V
C188	1-123-311-00	ELECT	1000MF	20%	10V
C189	1-123-311-00	ELECT	1000MF	20%	10V
C190	1-123-306-00	ELECT	47MF	20%	10V
		FILTER			
CF001	1-527-874-00	FILTER, CERAMIC 4.43MHZ (+30MHZ)			
CF002	1-527-875-00	FILTER, CERAMIC 5.12MHZ			
CF003	1-527-849-00	FILTER, CERAMIC 13.3MHZ			
		CONNECTOR			
CN001♣	1-560-460-00	PIN, CONNECTOR 4P			
CN002♣	1-560-459-00	PIN, CONNECTOR 3P			
CN003♣	1-560-460-00	PIN, CONNECTOR 4P			
CN004♣	1-560-464-00	PIN, CONNECTOR 10P			
CN005♣	1-560-463-00	PIN, CONNECTOR 8P			
CN006♣	1-560-455-00	PIN, CONNECTOR 2P			
CN007♣	1-560-460-00	PIN, CONNECTOR 4P			
CN008♣	1-560-461-00	PIN, CONNECTOR 5P			
CN009♣	1-560-470-00	PIN, CONNECTOR 8P			
CN010♣	1-560-470-00	PIN, CONNECTOR 8P			
CN011	1-561-468-00	SOCKET, CONNECTOR (DIN8P)			
		TRIMMER			
CV001	1-141-275-00	CAP, TRIMMER			
		DIODE			
D001	8-719-901-33	DIODE 1SS133			
D002	8-719-901-33	DIODE 1SS133			
D003	8-719-901-33	DIODE 1SS133			
D004	8-719-100-56	DIODE RD10E-B1			
D005	8-719-100-56	DIODE RD10E-B1			
D006	8-719-901-33	DIODE 1SS133			
D008	8-719-901-33	DIODE 1SS133			
D009	8-719-901-33	DIODE 1SS133			
D010	8-719-901-33	DIODE 1SS133			
D011	8-719-901-33	DIODE 1SS133			
D012	8-719-901-33	DIODE 1SS133			
D013	8-719-901-33	DIODE 1SS133			
D014	8-719-901-33	DIODE 1SS133			
D015	8-719-901-33	DIODE 1SS133			
D016	8-719-901-33	DIODE 1SS133			
D017	8-719-901-33	DIODE 1SS133			
D018	8-719-901-33	DIODE 1SS133			
D019	8-719-901-33	DIODE 1SS133			
D020	8-719-901-33	DIODE 1SS133			
D021	8-719-901-33	DIODE 1SS133			

Ref.No.	Part No.	Description	Remark
		DELAY LINE	
DL001	1-415-273-00	DELAY LINE (1H)	
DL002	1-415-198-00	DELAY LINE (1H)	
DL003	1-415-282-00	DELAY LINE (2H)	
		FUSE	
F001 ⚠	1-532-279-00	FUSE, TIME-LAG T500MMA	
		IC	
IC001	8-759-208-94	IC CX-894	
IC002	8-758-660-00	IC CX-866	
IC003	8-759-208-67	IC CX-867	
IC004	8-741-102-80	IC BX-1028	
IC005	8-741-102-90	IC BX-1029	
IC006	8-741-103-00	IC BX-1030	
IC007	8-759-240-69	IC TC4069UBP	
IC008	8-758-690-00	IC CX-869	
IC009	8-759-208-94	IC CX-894	
IC010	8-752-000-80	IC CX20008	
IC011	8-759-600-08	IC CX-870A	
IC012	8-759-608-82	IC CX-882	
IC013	8-759-919-05	IC CX-7905A	
IC014	8-759-200-60	IC TA7060AP	
IC015	8-759-608-64	IC CX-864	
IC016	8-741-103-30	IC BX-1033	
IC017	8-741-103-40	IC BX-1034	
IC018	8-741-103-20	IC BX-1032	
IC019	8-759-908-68	IC CX-868	
IC020	8-759-979-26	IC CX-7926	
IC021	8-759-240-53	IC TC4053BP	
		COIL	
L001	1-408-397-00	MICRO INDUCTOR 1UH	
L002	1-408-397-00	MICRO INDUCTOR 1UH	
L003	1-407-503-31	MICRO INDUCTOR 8.2MMH	
L004	1-408-427-00	MICRO INDUCTOR 330UH	
L005	1-408-420-00	MICRO INDUCTOR 82UH	
L006	1-407-503-31	MICRO INDUCTOR 8.2MMH	
L007	1-408-408-00	MICRO INDUCTOR 8.2UH	
L008	1-408-429-00	MICRO INDUCTOR 470UH	
L009	1-407-503-31	MICRO INDUCTOR 8.2MMH	
L010	1-408-429-00	MICRO INDUCTOR 470UH	
L011	1-407-503-31	MICRO INDUCTOR 8.2MMH	
L012	1-408-426-00	MICRO INDUCTOR 270UH	
L013	1-408-412-00	MICRO INDUCTOR 18UH	
L014	1-408-421-00	MICRO INDUCTOR 100UH	
L015	1-408-421-00	MICRO INDUCTOR 100UH	
L016	1-408-415-00	MICRO INDUCTOR 33UH	
L018	1-408-415-00	MICRO INDUCTOR 33UH	
L020	1-408-422-00	MICRO INDUCTOR 120UH	
L021	1-408-424-00	MICRO INDUCTOR 180UH	
L022	1-408-422-00	MICRO INDUCTOR 120UH	

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

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Ref.No.	Part No.	Description	Remark
L023	1-407-169-XX	MICRO INDUCTOR 100UH	
		FILTER	
LPF001	1-235-097-00	FILTER, LOW PASS	
		VARIABLE COIL	
LV001	1-408-512-00	COIL (VARIABLE) 6.8UH	
		TRANSISTOR	
Q001	8-729-178-54	TRANSISTOR 2SC2785	
Q002	8-729-178-54	TRANSISTOR 2SC2785	
Q003	8-729-178-54	TRANSISTOR 2SC2785	
Q004	8-729-178-54	TRANSISTOR 2SC2785	
Q005	8-729-117-54	TRANSISTOR 2SA1175	
Q006	8-729-178-54	TRANSISTOR 2SC2785	
Q007	8-729-178-54	TRANSISTOR 2SC2785	
Q008	8-729-178-54	TRANSISTOR 2SC2785	
Q009	8-729-603-30	TRANSISTOR 2SC403SP	
Q010	8-729-603-30	TRANSISTOR 2SC403SP	
Q011	8-729-603-30	TRANSISTOR 2SC403SP	
Q012	8-729-603-30	TRANSISTOR 2SC403SP	
Q013	8-729-178-54	TRANSISTOR 2SC2785	
Q014	8-729-178-54	TRANSISTOR 2SC2785	
Q015	8-729-178-54	TRANSISTOR 2SC2785	
Q016	8-729-603-30	TRANSISTOR 2SC403SP	
Q017	8-729-178-54	TRANSISTOR 2SC2785	
Q018	=>8-729-374-02	TRANSISTOR 2SB740	
Q019	8-729-178-54	TRANSISTOR 2SC2785	
Q020	8-729-178-54	TRANSISTOR 2SC2785	
Q021	8-729-178-54	TRANSISTOR 2SC2785	
Q022	8-729-178-54	TRANSISTOR 2SC2785	
Q023	8-729-178-54	TRANSISTOR 2SC2785	
Q024	8-729-178-54	TRANSISTOR 2SC2785	
Q025	8-729-178-54	TRANSISTOR 2SC2785	
Q026	8-729-117-54	TRANSISTOR 2SA1175	
Q027	8-729-117-54	TRANSISTOR 2SA1175	
		RESISTOR	
R001	1-246-830-00	CARBON 75 1/8W	
R002	1-246-803-00	CARBON 47K 1/8W	
R003	1-246-830-00	CARBON 75 1/8W	
R004	1-246-830-00	CARBON 75 1/8W	
R005	1-246-802-00	CARBON 39K 1/8W	
R006	1-246-802-00	CARBON 39K 1/8W	
R007	1-246-792-00	CARBON 5.6K 1/8W	
R008	1-246-844-00	CARBON 1.1K 1/8W	
R009	1-246-844-00	CARBON 1.1K 1/8W	
R010	1-246-783-00	CARBON 1K 1/8W	
R011	1-246-801-00	CARBON 33K 1/8W	
R012	1-246-803-00	CARBON 47K 1/8W	
R013	1-246-833-00	CARBON 130 1/8W	
R014	1-246-833-00	CARBON 130 1/8W	

Ref.No.	Part No.	Description	Remark
R015	1-246-783-00	CARBON 1K 1/8W	
R016	1-246-783-00	CARBON 1K 1/8W	
R017	1-246-843-00	CARBON 910 1/8W	
R018	1-246-783-00	CARBON 1K 1/8W	
R019	1-246-791-00	CARBON 4.7K 1/8W	
R020	1-246-842-00	CARBON 750 1/8W	
R021	1-246-834-00	CARBON 160 1/8W	
R022	1-246-791-00	CARBON 4.7K 1/8W	
R023	1-246-783-00	CARBON 1K 1/8W	
R024	1-246-851-00	CARBON 4.3K 1/8W	
R025	1-246-842-00	CARBON 750 1/8W	
R026	1-246-797-00	CARBON 15K 1/8W	
R027	1-246-805-00	CARBON 68K 1/8W	
R028	1-246-783-00	CARBON 1K 1/8W	
R029	1-246-787-00	CARBON 2.2K 1/8W	
R030	1-246-807-00	CARBON 100K 1/8W	
R031	1-246-869-00	CARBON 130K 1/8W	
R032	1-247-049-00	CARBON 470K 1/8W	
R033	1-246-796-00	CARBON 12K 1/8W	
R034	1-246-802-00	CARBON 39K 1/8W	
R035	1-246-867-00	CARBON 91K 1/8W	
R036	1-246-809-00	CARBON 150K 1/8W	
R037	1-246-807-00	CARBON 100K 1/8W	
R038	1-246-803-00	CARBON 47K 1/8W	
R039	1-246-799-00	CARBON 22K 1/8W	
R040	1-246-797-00	CARBON 15K 1/8W	
R041	1-246-795-00	CARBON 10K 1/8W	
R042	1-246-791-00	CARBON 4.7K 1/8W	
R043	1-246-847-00	CARBON 2K 1/8W	
R044	1-246-846-00	CARBON 1.6K 1/8W	
R045	1-246-788-00	CARBON 2.7K 1/8W	
R046	1-246-852-00	CARBON 5.1K 1/8W	
R047	1-246-859-00	CARBON 20K 1/8W	
R048	1-246-788-00	CARBON 2.7K 1/8W	
R049	1-246-777-00	CARBON 330 1/8W	
R050	1-246-799-00	CARBON 22K 1/8W	
R051	1-246-795-00	CARBON 10K 1/8W	
R052	1-246-842-00	CARBON 750 1/8W	
R053	1-246-795-00	CARBON 10K 1/8W	
R054	1-246-788-00	CARBON 2.7K 1/8W	
R055	1-246-855-00	CARBON 9.1K 1/8W	
R056	1-246-795-00	CARBON 10K 1/8W	
R057	1-246-800-00	CARBON 27K 1/8W	
R058	1-246-861-00	CARBON 30K 1/8W	
R059	1-246-858-00	CARBON 16K 1/8W	
R060	1-246-779-00	CARBON 470 1/8W	
R061	1-246-779-00	CARBON 470 1/8W	
R062	1-246-783-00	CARBON 1K 1/8W	
R063	1-246-834-00	CARBON 160 1/8W	
R064	1-246-854-00	CARBON 7.5K 1/8W	
R065	1-246-787-00	CARBON 2.2K 1/8W	
R066	1-246-789-00	CARBON 3.3K 1/8W	
R067	1-246-795-00	CARBON 10K 1/8W	

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description			Remark
R068	1-246-803-00	CARBON	47K	1/8W	
R069	1-246-804-00	CARBON	56K	1/8W	
R070	1-246-804-00	CARBON	56K	1/8W	
R071	1-246-810-00	CARBON	180K	1/8W	
R072	1-246-800-00	CARBON	27K	1/8W	
R073	1-246-863-00	CARBON	43K	1/8W	
R074	1-246-783-00	CARBON	1K	1/8W	
R075	1-246-785-00	CARBON	1.5K	1/8W	
R076	1-246-783-00	CARBON	1K	1/8W	
R077	1-246-785-00	CARBON	1.5K	1/8W	
R078	1-246-799-00	CARBON	22K	1/8W	
R079	1-246-791-00	CARBON	4.7K	1/8W	
R080	1-246-778-00	CARBON	390	1/8W	
R081	1-246-787-00	CARBON	2.2K	1/8W	
R082	1-246-788-00	CARBON	2.7K	1/8W	
R083	1-246-783-00	CARBON	1K	1/8W	
R084	1-246-778-00	CARBON	390	1/8W	
R085	1-246-778-00	CARBON	390	1/8W	
R086	1-246-778-00	CARBON	390	1/8W	
R087	1-246-778-00	CARBON	390	1/8W	
R088	1-246-778-00	CARBON	390	1/8W	
R089	1-246-787-00	CARBON	2.2K	1/8W	
R090	1-246-787-00	CARBON	2.2K	1/8W	
R091	1-246-804-00	CARBON	56K	1/8W	
R092	1-246-791-00	CARBON	4.7K	1/8W	
R093	1-246-783-00	CARBON	1K	1/8W	
R094	1-246-804-00	CARBON	56K	1/8W	
R095	1-246-803-00	CARBON	47K	1/8W	
R096	1-246-803-00	CARBON	47K	1/8W	
R097	1-246-799-00	CARBON	22K	1/8W	
R098	1-246-799-00	CARBON	22K	1/8W	
R099	1-246-799-00	CARBON	22K	1/8W	
R100	1-246-803-00	CARBON	47K	1/8W	
R101	1-246-795-00	CARBON	10K	1/8W	
R102	1-246-802-00	CARBON	39K	1/8W	
R103	1-246-791-00	CARBON	4.7K	1/8W	
R104	1-246-783-00	CARBON	1K	1/8W	
R105	1-246-783-00	CARBON	1K	1/8W	
R106	1-246-860-00	CARBON	24K	1/8W	
R107	1-246-850-00	CARBON	3.6K	1/8W	
R108	1-246-849-00	CARBON	3K	1/8W	
R109	1-246-801-00	CARBON	33K	1/8W	
R110	1-246-783-00	CARBON	1K	1/8W	
R111	1-246-848-00	CARBON	2.4K	1/8W	
R112	1-246-783-00	CARBON	1K	1/8W	
R113	1-246-858-00	CARBON	16K	1/8W	
R114	1-246-799-00	CARBON	22K	1/8W	
R115	1-246-849-00	CARBON	3K	1/8W	
R116	1-246-859-00	CARBON	20K	1/8W	
R117	1-246-807-00	CARBON	100K	1/8W	
R118	1-246-807-00	CARBON	100K	1/8W	
R119	1-246-787-00	CARBON	2.2K	1/8W	
R120	1-246-787-00	CARBON	2.2K	1/8W	

Ref.No.	Part No.	Description			Remark
R121	1-246-803-00	CARBON	47K	1/8W	
R122	1-246-859-00	CARBON	20K	1/8W	
R123	1-246-847-00	CARBON	2K	1/8W	
R124	1-246-777-00	CARBON	330	1/8W	
R125	1-246-850-00	CARBON	3.6K	1/8W	
R126	1-246-805-00	CARBON	68K	1/8W	
R127	1-246-786-00	CARBON	1.8K	1/8W	
R128	1-246-801-00	CARBON	33K	1/8W	
R129	1-246-782-00	CARBON	820	1/8W	
R130	1-246-782-00	CARBON	820	1/8W	
R131	1-246-783-00	CARBON	1K	1/8W	
R132	1-246-783-00	CARBON	1K	1/8W	
R133	1-246-804-00	CARBON	56K	1/8W	
R134	1-246-809-00	CARBON	150K	1/8W	
R135	1-246-801-00	CARBON	33K	1/8W	
R136	1-246-802-00	CARBON	39K	1/8W	
R137	1-246-786-00	CARBON	1.8K	1/8W	
R138	1-246-802-00	CARBON	39K	1/8W	
R139	1-246-783-00	CARBON	1K	1/8W	
R140	1-247-055-00	CARBON	300K	1/8W	
R141	1-246-792-00	CARBON	5.6K	1/8W	
R142	1-246-786-00	CARBON	1.8K	1/8W	
R143	1-246-840-00	CARBON	510	1/8W	
R144	1-246-786-00	CARBON	1.8K	1/8W	
R145	1-246-855-00	CARBON	9.1K	1/8W	
R146	1-246-788-00	CARBON	2.7K	1/8W	
R147	1-246-795-00	CARBON	10K	1/8W	
R148	1-246-803-00	CARBON	47K	1/8W	
R149	1-246-803-00	CARBON	47K	1/8W	
R150	1-246-810-00	CARBON	180K	1/8W	
R151	1-246-862-00	CARBON	36K	1/8W	
R153	1-246-806-00	CARBON	82K	1/8W	
R154	1-246-831-00	CARBON	91	1/8W	
R155	1-246-801-00	CARBON	33K	1/8W	
R156	1-246-803-00	CARBON	47K	1/8W	
R157	1-246-783-00	CARBON	1K	1/8W	
R158	1-246-803-00	CARBON	47K	1/8W	
R159	1-246-783-00	CARBON	1K	1/8W	
R160	1-246-783-00	CARBON	1K	1/8W	
R161	1-246-869-00	CARBON	130K	1/8W	
R162	1-246-811-00	CARBON	220K	1/8W	
R163	1-246-786-00	CARBON	1.8K	1/8W	
R164	1-246-843-00	CARBON	910	1/8W	
R165	1-246-795-00	CARBON	10K	1/8W	
R166	1-246-839-00	CARBON	430	1/8W	
R167	1-246-847-00	CARBON	2K	1/8W	
R168	1-246-804-00	CARBON	56K	1/8W	
R169	1-246-804-00	CARBON	56K	1/8W	
R170	1-246-784-00	CARBON	1.2K	1/8W	
R171	1-246-784-00	CARBON	1.2K	1/8W	
R172	1-246-795-00	CARBON	10K	1/8W	
R173	1-246-794-00	CARBON	8.2K	1/8W	
R174	1-246-793-00	CARBON	6.8K	1/8W	

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description			Remark
R175	1-246-791-00	CARBON	4.7K	1/8W	
R176	1-246-857-00	CARBON	13K	1/8W	
R177	1-246-852-00	CARBON	5.1K	1/8W	
R178	1-246-847-00	CARBON	2K	1/8W	
R179	1-246-795-00	CARBON	10K	1/8W	
R180	1-246-795-00	CARBON	10K	1/8W	
R181	1-246-830-00	CARBON	75	1/8W	
R182	1-246-801-00	CARBON	33K	1/8W	
R183	1-246-795-00	CARBON	10K	1/8W	
R184	1-246-769-00	CARBON	68	1/8W	
R185	1-246-773-00	CARBON	150	1/8W	
R186	1-246-773-00	CARBON	150	1/8W	
R187	1-246-837-00	CARBON	300	1/8W	
R188	1-246-769-00	CARBON	68	1/8W	
R189	1-246-769-00	CARBON	68	1/8W	
R190	1-246-803-00	CARBON	47K	1/8W	
R191	1-246-797-00	CARBON	15K	1/8W	
R192	1-246-847-00	CARBON	2K	1/8W	
R193	1-246-849-00	CARBON	3K	1/8W	
R194	1-246-803-00	CARBON	47K	1/8W	
R195	1-246-794-00	CARBON	8.2K	1/8W	
R196	1-246-791-00	CARBON	4.7K	1/8W	
R197	1-246-837-00	CARBON	300	1/8W	
R198	1-246-847-00	CARBON	2K	1/8W	
R199	1-246-805-00	CARBON	68K	1/8W	

VARIABLE RESISTOR

RV001	1-226-703-00	RES, ADJ, METAL GLAZE	10K
RV002	1-226-774-00	RES, ADJ, METAL GLAZE	47K
RV003	1-226-702-00	RES, ADJ, METAL GLAZE	2.2K
RV004	1-226-774-00	RES, ADJ, METAL GLAZE	47K
RV005	1-226-770-00	RES, ADJ, METAL GLAZE	470
RV006	1-226-772-00	RES, ADJ, METAL GLAZE	4.7K
RV007	1-226-775-00	RES, ADJ, METAL GLAZE	100K
RV008	1-226-775-00	RES, ADJ, METAL GLAZE	100K
RV009	1-226-774-00	RES, ADJ, METAL GLAZE	47K
RV010	1-226-773-00	RES, ADJ, METAL GLAZE	22K
RV011	1-226-708-00	RES, ADJ, SOLID	2.2K
RV012	1-226-706-00	RES, ADJ, SOLID	470
RV013	1-226-702-00	RES, ADJ, METAL GLAZE	2.2K
RV014	1-226-703-00	RES, ADJ, METAL GLAZE	10K
RV015	1-226-703-00	RES, ADJ, METAL GLAZE	10K
RV016	1-226-708-00	RES, ADJ, SOLID	2.2K
RV017	1-226-707-00	RES, ADJ, SOLID	1K
RV018	1-226-703-00	RES, ADJ, METAL GLAZE	10K
RV019	1-226-773-00	RES, ADJ, METAL GLAZE	22K
RV020	1-226-709-00	RES, ADJ, SOLID	4.7K
RV021	1-226-715-00	RES, ADJ, SOLID	470K
RV022	1-226-774-00	RES, ADJ, METAL GLAZE	47K
RV023	1-226-774-00	RES, ADJ, METAL GLAZE	47K
RV024	1-226-773-00	RES, ADJ, METAL GLAZE	22K
RV025	1-226-773-00	RES, ADJ, METAL GLAZE	22K
RV026	1-228-543-00	RES, VAR, CARBON	100K

Ref.No.	Part No.	Description	Remark
		SWITCH	
SW001	1-552-821-00	SWITCH, SLIDE	
		TRANSFORMER	
T001	1-426-093-00	COIL, REC C BPT	
		CRYSTAL	
X001	1-527-345-00	CRYSTAL, OSC 4.43MHZ	

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♣:A-6711-356-A RP-7 BAORD, COMPLETE

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CAPACITOR

C701	1-161-013-00	CERAMIC	0.01MF	10%	25V
C702	1-161-013-00	CERAMIC	0.01MF	10%	25V
C703	1-161-013-00	CERAMIC	0.01MF	10%	25V
C704	1-123-611-00	ELECT	1MF	20%	50V
C705	1-161-013-00	CERAMIC	0.01MF	10%	25V
C706	1-123-622-00	ELECT	22MF	20%	16V
C707	1-161-013-00	CERAMIC	0.01MF	10%	25V
C708	1-161-013-00	CERAMIC	0.01MF	10%	25V
C709	1-123-611-00	ELECT	1MF	20%	50V
C712	1-161-013-00	CERAMIC	0.01MF	10%	25V
C713	1-161-013-00	CERAMIC	0.01MF	10%	25V
C714	1-161-013-00	CERAMIC	0.01MF	10%	25V
C715	1-161-013-00	CERAMIC	0.01MF	10%	25V
C716	1-102-951-00	CERAMIC	15PF	5%	50V
C717	1-161-013-00	CERAMIC	0.01MF	10%	25V
C718	1-123-612-00	ELECT	2.2MF	20%	50V
C719	1-161-013-00	CERAMIC	0.01MF	10%	25V
C720	1-123-612-00	ELECT	2.2MF	20%	50V
C721	1-102-951-00	CERAMIC	15PF	5%	50V
C722	1-161-013-00	CERAMIC	0.01MF	10%	25V
C723	1-102-951-00	CERAMIC	15PF	5%	50V
C724	1-123-612-00	ELECT	2.2MF	20%	50V
C725	1-123-612-00	ELECT	2.2MF	20%	50V
C726	1-161-013-00	CERAMIC	0.01MF	10%	25V
C727	1-102-821-00	CERAMIC	360PF	5%	50V
C729	1-123-617-00	ELECT	10MF	20%	16V
C730	1-102-824-00	CERAMIC	430PF	5%	50V
C731	1-161-013-00	CERAMIC	0.01MF	10%	25V
C732	1-161-013-00	CERAMIC	0.01MF	10%	25V
C733	1-161-013-00	CERAMIC	0.01MF	10%	25V
C734	1-161-013-00	CERAMIC	0.01MF	10%	25V
C735	1-161-013-00	CERAMIC	0.01MF	10%	25V
C736	1-161-013-00	CERAMIC	0.01MF	10%	25V
C737	1-161-013-00	CERAMIC	0.01MF	10%	25V
C738	1-101-890-00	CERAMIC	75PF	5%	50V
C739	1-102-824-00	CERAMIC	430PF	5%	50V
C740	1-102-973-00	CERAMIC	100PF	5%	50V

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description			Remark
C741	1-161-013-00	CERAMIC	0.01MF	10% 25V	
C742	1-161-013-00	CERAMIC	0.01MF	10% 25V	
C743	1-161-013-00	CERAMIC	0.01MF	10% 25V	
C744	1-123-820-00	ELECT	33MF	20% 16V	
C745	1-161-013-00	CERAMIC	0.01MF	10% 25V	
C746	1-123-622-00	ELECT	22MF	20% 16V	
C748	1-123-622-00	ELECT	22MF	20% 16V	
C749	1-161-013-00	CERAMIC	0.01MF	10% 25V	
C750	1-123-622-00	ELECT	22MF	20% 16V	
C751	1-161-013-00	CERAMIC	0.01MF	10% 25V	
C752	1-161-013-00	CERAMIC	0.01MF	10% 25V	
C753	1-161-013-00	CERAMIC	0.01MF	10% 25V	
C754	1-161-013-00	CERAMIC	0.01MF	10% 25V	
C755	1-161-059-00	CERAMIC	0.047MF	10% 50V	
C756	1-161-025-00	CERAMIC	0.1MF	10% 25V	
C757	1-161-013-00	CERAMIC	0.01MF	10% 25V	
C758	1-123-622-00	ELECT	22MF	20% 16V	
C759	1-161-013-00	CERAMIC	0.01MF	10% 25V	
C760	1-123-617-00	ELECT	10MF	20% 16V	
C761	1-102-959-00	CERAMIC	22PF	5% 50V	
C762	1-102-959-00	CERAMIC	22PF	5% 50V	
C763	1-102-959-00	CERAMIC	22PF	5% 50V	
C764	1-161-013-00	CERAMIC	0.01MF	10% 25V	
C765	1-161-013-00	CERAMIC	0.01MF	10% 25V	
C766	1-101-890-00	CERAMIC	75PF	5% 50V	
C767	1-161-013-00	CERAMIC	0.01MF	10% 25V	

CONNECTOR

CN701♣	1-560-463-00	PIN, CONNECTOR 8P	
CN702♣	1-560-463-00	PIN, CONNECTOR 8P	
CN703♣	1-560-461-00	PIN, CONNECTOR 5P	
CN704♣	1-560-464-00	PIN, CONNECTOR 10P	

DIODE

D701	8-719-911-19	DIODE 1SS119	
D702	8-719-911-19	DIODE 1SS119	

IC

IC701	8-759-908-63	IC CX-863	

COIL

L701	1-408-421-00	MICRO INDUCTOR 100UH	
L702	1-408-397-00	MICRO INDUCTOR 1UH	
L703	1-408-421-00	MICRO INDUCTOR 100UH	
L704	1-408-397-00	MICRO INDUCTOR 1UH	
L705	1-408-421-00	MICRO INDUCTOR 100UH	
L706	1-408-397-00	MICRO INDUCTOR 1UH	
L707	1-408-423-00	MICRO INDUCTOR 150UH	
L708	1-408-414-00	MICRO INDUCTOR 27UH	
L709	1-408-414-00	MICRO INDUCTOR 27UH	
L710	1-408-414-00	MICRO INDUCTOR 27UH	
L711	1-408-421-00	MICRO INDUCTOR 100UH	
L712	1-408-421-00	MICRO INDUCTOR 100UH	
L713	1-408-423-00	MICRO INDUCTOR 150UH	
L714	1-408-421-00	MICRO INDUCTOR 100UH	

TRANSISTOR

Q701	8-765-422-00	TRANSISTOR 2SK152-2	
Q703	8-729-178-54	TRANSISTOR 2SC2785	
Q704	8-729-603-50	TRANSISTOR 2SC403SP	
Q705	8-765-422-00	TRANSISTOR 2SK152-2	
Q706	8-729-178-54	TRANSISTOR 2SC2785	
Q707	8-729-603-50	TRANSISTOR 2SC403SP	
Q708	8-765-422-00	TRANSISTOR 2SK152-2	
Q710	8-729-178-54	TRANSISTOR 2SC2785	
Q711	8-729-178-54	TRANSISTOR 2SC2785	
Q712	8-729-178-54	TRANSISTOR 2SC2785	
Q713	8-729-178-54	TRANSISTOR 2SC2785	
Q714	8-729-603-50	TRANSISTOR 2SC403SP	
Q715	8-729-603-50	TRANSISTOR 2SC403SP	
Q716	8-729-603-50	TRANSISTOR 2SC403SP	
Q717	8-729-603-50	TRANSISTOR 2SC403SP	
Q718	8-729-374-02	TRANSISTOR 2SB740	
Q719	8-729-178-54	TRANSISTOR 2SC2785	

RESISTOR

R701	1-246-796-00	CARBON	12K	1/8W
R702	1-246-850-00	CARBON	3.6K	1/8W
R703	1-246-780-00	CARBON	560	1/8W
R704	1-246-778-00	CARBON	390	1/8W
R706	1-246-850-00	CARBON	3.6K	1/8W
R707	1-246-836-00	CARBON	240	1/8W
R709	1-246-796-00	CARBON	12K	1/8W
R710	1-246-780-00	CARBON	560	1/8W
R712	1-246-850-00	CARBON	3.6K	1/8W
R713	1-246-778-00	CARBON	390	1/8W
R716	1-246-850-00	CARBON	3.6K	1/8W
R717	1-246-836-00	CARBON	240	1/8W
R718	1-246-796-00	CARBON	12K	1/8W
R719	1-246-850-00	CARBON	3.6K	1/8W
R720	1-246-780-00	CARBON	560	1/8W
R722	1-246-778-00	CARBON	390	1/8W
R725	1-246-843-00	CARBON	910	1/8W
R726	1-246-791-00	CARBON	4.7K	1/8W
R727	1-246-791-00	CARBON	4.7K	1/8W
R728	1-246-791-00	CARBON	4.7K	1/8W
R729	1-246-795-00	CARBON	10K	1/8W
R730	1-246-846-00	CARBON	1.6K	1/8W
R731	1-246-785-00	CARBON	1.5K	1/8W
R732	1-246-795-00	CARBON	10K	1/8W
R733	1-246-791-00	CARBON	4.7K	1/8W
R734	1-246-791-00	CARBON	4.7K	1/8W
R735	1-246-791-00	CARBON	4.7K	1/8W
R736	1-246-799-00	CARBON	22K	1/8W
R737	1-246-799-00	CARBON	22K	1/8W

When indicating parts by reference number, please include the board name.

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Ref.No.	Part No.	Description				Remark
R738	1-246-775-00	CARBON	220		1/8W	
R739	1-246-791-00	CARBON	4.7K		1/8W	
R740	1-246-783-00	CARBON	1K		1/8W	
R741	1-246-791-00	CARBON	4.7K		1/8W	
R742	1-246-772-00	CARBON	120		1/8W	
R743	1-246-835-00	CARBON	200		1/8W	
R744	1-246-791-00	CARBON	4.7K		1/8W	
R745 ⚠	1-247-031-00	CARBON	27	5%	1/8W	F
R746	1-246-845-00	CARBON	1.3K		1/8W	
R747	1-246-851-00	CARBON	4.3K		1/8W	
R748 ⚠	1-247-031-00	CARBON	27	5%	1/8W	F
R749	1-246-783-00	CARBON	1K		1/8W	
R750	1-246-835-00	CARBON	200		1/8W	
R751	1-246-783-00	CARBON	1K		1/8W	
R752	1-246-853-00	CARBON	6.2K		1/8W	
R753	1-246-853-00	CARBON	6.2K		1/8W	
R754	1-246-783-00	CARBON	1K		1/8W	
R755	1-246-777-00	CARBON	330		1/8W	
R756	1-246-853-00	CARBON	6.2K		1/8W	
R757	1-246-785-00	CARBON	1.5K		1/8W	
R758	1-246-795-00	CARBON	10K		1/8W	
R759	1-246-783-00	CARBON	1K		1/8W	
R760	1-246-801-00	CARBON	33K		1/8W	
R761	1-246-801-00	CARBON	33K		1/8W	
R762	1-246-803-00	CARBON	47K		1/8W	
R763	1-246-803-00	CARBON	47K		1/8W	

VARIABLE RESISTOR

RV701	1-226-702-00	RES, ADJ, METAL GLAZE 2.2K
RV702	1-226-702-00	RES, ADJ, METAL GLAZE 2.2K
RV703	1-226-702-00	RES, ADJ, METAL GLAZE 2.2K
RV704	1-226-702-00	RES, ADJ, METAL GLAZE 2.2K
RV705	1-226-702-00	RES, ADJ, METAL GLAZE 2.2K

TRANSFORMER

T701	1-427-522-00	TRANSFORMER, INPUT OUTPUT
T702	1-427-521-00	TRANSFORMER
T703	1-427-521-00	TRANSFORMER
T704	1-409-352-00	COIL, TRAP
T705	1-409-353-00	COIL, TRAP

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♣:A-6713-135-A	AM-1 BOARD, COMPLETE	
	**********	
♣:3-675-552-00	CASE (A) (MAIN), SHIELD, AM	
♣:3-675-553-00	LID, UPPER, SHIELD CASE(A), AM	
♣:3-675-554-00	CASE (B) (MAIN), SHIELD, AM	
♣:3-675-555-00	LID, UPPER, SHIELD CASE(B), AM	

CAPACITOR

C402	1-161-039-00	CERAMIC	0.001MF	10%	25V
C403	1-161-039-00	CERAMIC	0.001MF	10%	25V
C501	1-123-356-00	ELECT	10MF	20%	16V

Ref.No.	Part No.	Description				Remark
C502	1-123-307-00	ELECT	100MF	20%	10V	
C504	1-123-307-00	ELECT	100MF	20%	10V	
C505	1-123-356-00	ELECT	10MF	20%	16V	
C505	1-131-404-00	ELECT(SOLID)	0.22MF	10%	25V	
C515	1-161-039-00	CERAMIC	0.001MF	10%	25V	
C516	1-130-627-00	MYLAR	0.039MF	5%	50V	
C517	1-130-480-00	MYLAR	0.0056MF	5%	50V	
C518	1-130-495-00	MYLAR	0.1MF	5%	50V	
C519	1-130-483-51	MYLAR	0.01MF	5%	50V	
C520	1-123-340-00	ELECT	4.7MF	20%	35V	
C521	1-123-295-00	ELECT	100MF	20%	6.3V	
C522	1-123-356-00	ELECT	10MF	20%	16V	
C523	1-123-340-00	ELECT	4.7MF	20%	35V	
C524	1-123-381-00	ELECT	2.2MF	20%	50V	
C525	1-102-978-00	CERAMIC	220PF	5%	50V	
C526	1-123-356-00	ELECT	10MF	20%	16V	
C527	1-123-356-00	ELECT	10MF	20%	16V	
C528	1-102-978-00	CERAMIC	220PF	5%	50V	
C529	1-123-381-00	ELECT	2.2MF	20%	50V	
C530	1-123-340-00	ELECT	4.7MF	20%	35V	
C531	1-123-356-00	ELECT	10MF	20%	16V	
C532	1-123-295-00	ELECT	100MF	20%	6.3V	
C533	1-123-340-00	ELECT	4.7MF	20%	35V	
C534	1-130-483-51	MYLAR	0.01MF	5%	50V	
C535	1-130-495-00	MYLAR	0.1MF	5%	50V	
C536	1-161-039-00	CERAMIC	0.001MF	10%	25V	
C537	1-130-627-00	MYLAR	0.039MF	5%	50V	
C538	1-130-480-00	MYLAR	0.0056MF	5%	50V	
C554	1-123-306-00	ELECT	47MF	20%	10V	
C555	1-123-307-00	ELECT	100MF	20%	10V	
C556	1-123-330-00	ELECT	22MF	20%	16V	
C558	1-123-379-00	ELECT	0.47MF	20%	50V	
C559	1-123-379-00	ELECT	0.47MF	20%	50V	
C560	1-123-294-00	ELECT	47MF	20%	6.3V	
C561	1-123-330-00	ELECT	22MF	20%	16V	
C562	1-123-307-00	ELECT	100MF	20%	10V	
C563	1-123-306-00	ELECT	47MF	20%	10V	
C564	1-102-980-00	CERAMIC	270PF	5%	50V	
C565	1-102-980-00	CERAMIC	270PF	5%	50V	
C568	1-130-477-00	MYLAR	0.0033MF	5%	50V	
C569	1-130-479-00	MYLAR	0.0047MF	5%	50V	
C570	1-129-709-00	FILM	0.0039MF	10%	630V	
C571	1-123-356-00	ELECT	10MF	20%	16V	
C572	1-123-332-00	ELECT	47MF	20%	16V	
C574	1-102-824-00	CERAMIC	430PF	5%	50V	
C575	1-102-116-00	CERAMIC	680PF	10%	50V	
C577	1-123-294-00	ELECT	47MF	20%	6.3V	
C578	1-102-115-00	CERAMIC	560PF	10%	50V	
C579	1-130-488-00	MYLAR	0.027MF	5%	50V	
C580	1-102-973-00	CERAMIC	100PF	5%	50V	
C581	1-130-473-51	MYLAR	0.0015MF	5%	50V	
C582	1-130-482-00	MYLAR	0.0082MF	5%	50V	
C583	1-102-947-00	CERAMIC	10PF	5%	50V	

When indicating parts by reference number, please include the board name.

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Ref.No.	Part No.	Description			Remark
C584	1-102-824-00	CERAMIC	430PF	5%	50V
C585	1-102-116-00	CERAMIC	680PF	10%	50V
C590	1-102-973-00	CERAMIC	100PF	5%	50V
C591	1-130-473-51	MYLAR	0.0015MF	5%	50V
C592	1-130-482-00	MYLAR	0.0082MF	5%	50V
C593	1-102-947-00	CERAMIC	10PF	5%	50V
C594	1-123-356-00	ELECT	10MF	20%	16V
C595	1-123-356-00	ELECT	10MF	20%	16V
C596	1-123-379-00	ELECT	0.47MF	20%	50V
C597	1-123-356-00	ELECT	10MF	20%	16V
C598	1-123-356-00	ELECT	10MF	20%	16V
C599	1-123-379-00	ELECT	0.47MF	20%	50V
C600	1-123-340-00	ELECT	4.7MF	20%	35V
C601	1-123-294-00	ELECT	47MF	20%	6.3V
C602	1-123-356-00	ELECT	10MF	20%	16V
C603	1-123-356-00	ELECT	10MF	20%	16V
C604	1-123-380-00	ELECT	1MF	20%	50V
C605	1-123-380-00	ELECT	1MF	20%	50V
C606	1-123-333-00	ELECT	100MF	20%	16V
C607	1-123-332-00	ELECT	47MF	20%	16V
C608	1-123-306-00	ELECT	47MF	20%	10V
C609	1-123-306-00	ELECT	47MF	20%	10V
C610	1-123-332-00	ELECT	47MF	20%	16V
C611	1-123-332-00	ELECT	47MF	20%	16V
C612	1-102-116-00	CERAMIC	680PF	10%	50V
C613	1-123-356-00	ELECT	10MF	20%	16V
C614	1-131-404-00	ELECT(SOLID)	0.22MF	10%	25V
C615	1-123-356-00	ELECT	10MF	20%	16V
C616	1-123-380-00	ELECT	1MF	20%	50V
C617	1-123-380-00	ELECT	1MF	20%	50V
C618	1-123-356-00	ELECT	10MF	20%	16V
C619	1-123-356-00	ELECT	10MF	20%	16V
C621	1-123-356-00	ELECT	10MF	20%	16V
C623	1-161-021-00	CERAMIC	0.047MF	10%	25V
C626	1-123-306-00	ELECT	47MF	20%	10V
C631	1-161-039-00	CERAMIC	0.001MF	10%	25V
C632	1-161-023-00	CERAMIC	0.068MF	10%	25V
C633	1-102-117-00	CERAMIC	820PF	10%	50V
C634	1-123-356-00	ELECT	10MF	20%	16V
C635	1-101-059-00	CERAMIC	510PF	5%	50V
C636	1-102-980-00	CERAMIC	270PF	5%	50V
C637	1-161-016-00	CERAMIC	0.018MF	10%	25V
C638	1-161-039-00	CERAMIC	0.001MF	10%	25V
C639	1-161-023-00	CERAMIC	0.068MF	10%	25V
C640	1-102-117-00	CERAMIC	820PF	10%	50V
C641	1-102-980-00	CERAMIC	270PF	5%	50V
C642	1-101-059-00	CERAMIC	510PF	5%	50V
C644	1-161-016-00	CERAMIC	0.018MF	10%	25V
C645	1-123-356-00	ELECT	10MF	20%	16V
C646	1-123-356-00	ELECT	10MF	20%	16V
C652	1-161-011-00	CERAMIC	0.0068MF	10%	25V
C653	1-161-015-00	CERAMIC	0.015MF	10%	25V
C655	1-161-015-00	CERAMIC	0.015MF	10%	25V

Ref.No.	Part No.	Description			Remark
C801	1-161-009-00	CERAMIC	0.0047MF	10%	25V
C802	1-123-356-00	ELECT	10MF	20%	16V
C803	1-161-021-00	CERAMIC	0.047MF	10%	25V
C807	1-123-356-00	ELECT	10MF	20%	16V
C808	1-123-356-00	ELECT	10MF	20%	16V
C809	1-123-356-00	ELECT	10MF	20%	16V
C810	1-123-356-00	ELECT	10MF	20%	16V
C814	1-123-356-00	ELECT	10MF	20%	16V
C815	1-123-356-00	ELECT	10MF	20%	16V
C827	1-131-344-00	ELECT(SOLID)	0.33MF	10%	25V
C828	1-131-344-00	ELECT(SOLID)	0.33MF	10%	25V
C831	1-123-356-00	ELECT	10MF	20%	16V
C832	1-123-332-00	ELECT	47MF	20%	16V
C844	1-130-479-00	MYLAR	0.0047MF	5%	50V
C845	1-130-473-51	MYLAR	0.0015MF	5%	50V
C851	1-123-356-00	ELECT	10MF	20%	16V
C852	1-161-021-00	CERAMIC	0.047MF	10%	25V
C853	1-123-330-00	ELECT	22MF	20%	16V
C854	1-123-308-00	ELECT	220MF	20%	10V
C855	1-123-330-00	ELECT	22MF	20%	16V
C861	1-123-328-00	ELECT	4.7MF	20%	25V

CONNECTOR

CN001♣	1-560-591-00	PIN, CONNECTOR 7P
CN002♣	1-560-469-00	PIN, CONNECTOR 6P
CN003♣	1-560-466-00	PIN, CONNECTOR 3P
CN005♣	1-560-467-00	PIN, CONNECTOR 4P
CN006♣	1-560-456-00	PIN, CONNECTOR 2P
CN007♣	1-560-466-00	PIN, CONNECTOR 3P
CN008♣	1-560-469-00	PIN, CONNECTOR 6P
CN009♣	1-560-470-00	PIN, CONNECTOR 8P
CN010♣	1-560-469-00	PIN, CONNECTOR 6P
CN011♣	1-560-471-00	PIN, CONNECTOR 10P

TRIMMER

CT501	1-141-215-00	CAP, TRIMMER 100P
CT502	1-141-215-00	CAP, TRIMMER 100P

DIODE

D504	8-719-911-19	DIODE 1SS119
D505	8-719-911-19	DIODE 1SS119
D507	8-719-911-19	DIODE 1SS119
D508	8-719-911-19	DIODE 1SS119
D509	8-719-911-19	DIODE 1SS119
D510	8-719-911-19	DIODE 1SS119
D511	8-719-911-19	DIODE 1SS119
D512	8-719-911-19	DIODE 1SS119
D513	8-719-911-19	DIODE 1SS119
D514	8-719-175-07	DIODE RD7.5E-B
D515	8-719-911-19	DIODE 1SS119
D516	8-719-911-19	DIODE 1SS119
D517	8-719-911-19	DIODE 1SS119
D518	8-719-911-19	DIODE 1SS119

When indicating parts by reference number, please include the board name.

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Ref.No.	Part No.	Description	Remark
D519	8-719-911-19	DIODE 1SS119	
D525	8-719-911-19	DIODE 1SS119	
D526	8-719-911-19	DIODE 1SS119	
D527	8-719-911-19	DIODE 1SS119	
D528	8-719-911-19	DIODE 1SS119	
D531	8-719-911-19	DIODE 1SS119	
D532	8-719-911-19	DIODE 1SS119	
D533	8-719-911-19	DIODE 1SS119	
D534	8-719-911-19	DIODE 1SS119	
D551	8-719-911-19	DIODE 1SS119	
D552	8-719-911-19	DIODE 1SS119	
D553	8-719-911-19	DIODE 1SS119	
D554	8-719-911-19	DIODE 1SS119	
D555	8-719-911-19	DIODE 1SS119	
D560	8-719-113-07	DIODE RD13E-B	
D561	8-719-113-07	DIODE RD13E-B	
D562	8-719-113-07	DIODE RD13E-B	
D563	8-719-113-07	DIODE RD13E-B	
D571	8-719-911-19	DIODE 1SS119	
		IC	
IC501	8-759-240-52	IC TC4052BP	
IC506	8-759-240-53	IC TC4053BP	
IC507=>	8-759-905-71	IC NE571N	
IC508	8-759-240-53	IC TC4053BP	
IC509	8-759-145-58	IC UPC4558C	
IC510	8-759-145-58	IC UPC4558C	
IC511	8-759-145-58	IC UPC4558C	
IC512	8-759-145-58	IC UPC4558C	
IC513	8-759-145-58	IC UPC4558C	
IC520	8-759-145-58	IC UPC4558C	
IC521	8-759-240-53	IC TC4053BP	
IC522	8-759-618-48	IC M51848L	
IC524	8-759-240-52	IC TC4052BP	
		COIL	
L501	1-459-351-00	COIL (WITH CORE)	
L502	1-459-351-00	COIL (WITH CORE)	
L505	1-407-710-00	MICRO INDUCTOR 270UH	
L506	1-407-709-00	MICRO INDUCTOR 220UH	
L508	1-407-492-00	MICRO INDUCTOR 1MMH	
L509	1-407-717-00	MICRO INDUCTOR 1MMH	
L510	1-407-494-00	MICRO INDUCTOR 1.5MMH	
L513	1-407-718-00	MICRO INDUCTOR 1.2MMH	
L514	1-407-717-00	MICRO INDUCTOR 1MMH	
L520	1-407-176-XX	MICRO INDUCTOR 390UH	
		VARIABLE COIL	
LV501	1-408-523-00	COIL, VARIABLE 22MMH	
LV502	1-408-523-00	COIL, VARIABLE 22MMH	
LV503	1-408-524-00	INDUCTOR, ADJ	

Ref.No.	Part No.	Description	Remark
		TRANSISTOR	
Q501	8-729-178-54	TRANSISTOR 2SC2785	
Q503	8-729-178-54	TRANSISTOR 2SC2785	
Q504	8-729-178-54	TRANSISTOR 2SC2785	
Q505	8-729-178-54	TRANSISTOR 2SC2785	
Q506 =>8	8-729-117-54	TRANSISTOR 2SA1175	
Q507	8-729-178-54	TRANSISTOR 2SC2785	
Q508 =>8	8-729-117-54	TRANSISTOR 2SA1175	
Q509	8-729-178-54	TRANSISTOR 2SC2785	
Q511	8-729-178-54	TRANSISTOR 2SC2785	
Q512	8-729-178-54	TRANSISTOR 2SC2785	
Q513	8-729-967-32	TRANSISTOR 2SC2673	
Q515	8-729-178-54	TRANSISTOR 2SC2785	
Q517	8-729-988-12	TRANSISTOR 2SA881	
Q518	8-729-178-54	TRANSISTOR 2SC2785	
Q522	8-729-908-62	TRANSISTOR 2SD786	
Q523 =>8	8-729-612-77	TRANSISTOR 2SA1027R	
Q524	8-729-178-54	TRANSISTOR 2SC2785	
Q525	8-729-178-54	TRANSISTOR 2SC2785	
Q529	8-729-908-62	TRANSISTOR 2SD786	
Q530 =>8	8-729-612-77	TRANSISTOR 2SA1027R	
Q531	8-729-178-54	TRANSISTOR 2SC2785	
Q532	8-729-384-48	TRANSISTOR 2SA844	
Q533	8-729-384-48	TRANSISTOR 2SA844	
Q534	8-729-384-48	TRANSISTOR 2SA844	
Q535	8-729-384-48	TRANSISTOR 2SA844	
Q536	8-729-178-54	TRANSISTOR 2SC2785	
Q537	8-729-178-54	TRANSISTOR 2SC2785	
Q538	8-729-178-54	TRANSISTOR 2SC2785	
Q539	8-729-178-54	TRANSISTOR 2SC2785	
Q540	8-729-967-32	TRANSISTOR 2SC2673	
Q541	8-729-178-54	TRANSISTOR 2SC2785	
Q542	8-729-178-54	TRANSISTOR 2SC2785	
Q544	8-729-178-54	TRANSISTOR 2SC2785	
Q545	8-729-334-58	TRANSISTOR 2SC1345	
Q546	8-729-334-58	TRANSISTOR 2SC1345	
Q551	8-729-178-54	TRANSISTOR 2SC2785	
Q552	8-729-178-54	TRANSISTOR 2SC2785	
Q553	8-729-178-54	TRANSISTOR 2SC2785	
Q554	8-729-178-54	TRANSISTOR 2SC2785	
Q555	8-729-178-54	TRANSISTOR 2SC2785	
Q556	8-729-178-54	TRANSISTOR 2SC2785	
Q557	8-729-178-54	TRANSISTOR 2SC2785	
Q583 =>8	8-729-117-54	TRANSISTOR 2SA1175	
Q584	8-729-178-54	TRANSISTOR 2SC2785	
Q585	8-729-178-54	TRANSISTOR 2SC2785	
Q586	8-729-178-54	TRANSISTOR 2SC2785	
Q589 =>8	8-729-117-54	TRANSISTOR 2SA1175	
Q601	8-729-178-54	TRANSISTOR 2SC2785	
Q602	8-729-178-54	TRANSISTOR 2SC2785	
Q603	8-729-178-54	TRANSISTOR 2SC2785	
Q604	8-729-178-54	TRANSISTOR 2SC2785	

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description	Remark
Q605	8-729-178-54	TRANSISTOR 2SC2785	
Q606	8-729-178-54	TRANSISTOR 2SC2785	
Q607	8-729-178-54	TRANSISTOR 2SC2785	
Q608	=>8-729-117-54	TRANSISTOR 2SA1175	
Q609	8-729-178-54	TRANSISTOR 2SC2785	
Q610	8-729-178-54	TRANSISTOR 2SC2785	
Q611	=>8-729-117-54	TRANSISTOR 2SA1175	
Q612	8-729-178-54	TRANSISTOR 2SC2785	
Q613	=>8-729-117-54	TRANSISTOR 2SA1175	
Q614	8-729-178-54	TRANSISTOR 2SC2785	
Q615	8-729-178-54	TRANSISTOR 2SC2785	
Q616	8-729-178-54	TRANSISTOR 2SC2785	

RESISTOR

R401	1-246-807-00	CARBON	100K	1/8W
R402	1-246-807-00	CARBON	100K	1/8W
R403	1-246-783-00	CARBON	1K	1/8W
R404	1-246-795-00	CARBON	10K	1/8W
R405	1-246-798-00	CARBON	18K	1/8W
R406	1-247-046-00	CARBON	270K	1/8W
R407	1-246-773-00	CARBON	150	1/8W
R408	1-246-800-00	CARBON	27K	1/8W
R409	1-246-800-00	CARBON	27K	1/8W
R410	1-247-046-00	CARBON	270K	1/8W
R411	1-246-798-00	CARBON	18K	1/8W
R412	1-246-773-00	CARBON	150	1/8W
R413	1-246-783-00	CARBON	1K	1/8W
R414	1-246-807-00	CARBON	100K	1/8W
R415	1-246-795-00	CARBON	10K	1/8W
R416	1-246-807-00	CARBON	100K	1/8W
R417	1-246-805-00	CARBON	68K	1/8W
R418	1-246-807-00	CARBON	100K	1/8W
R419	1-246-805-00	CARBON	68K	1/8W
R420	1-246-807-00	CARBON	100K	1/8W
R421	1-246-860-00	CARBON	24K	1/8W
R422	1-247-046-00	CARBON	270K	1/8W
R423	1-247-046-00	CARBON	270K	1/8W
R424	1-246-805-00	CARBON	68K	1/8W
R425	1-246-797-00	CARBON	15K	1/8W
R426	1-246-803-00	CARBON	47K	1/8W
R427	1-247-046-00	CARBON	270K	1/8W
R428	1-246-805-00	CARBON	68K	1/8W
R429	1-246-797-00	CARBON	15K	1/8W
R433	1-246-803-00	CARBON	47K	1/8W
R434	1-246-799-00	CARBON	22K	1/8W
R435	1-246-794-00	CARBON	8.2K	1/8W
R436	1-246-794-00	CARBON	8.2K	1/8W
R437	1-246-790-00	CARBON	3.9K	1/8W
R438	1-246-790-00	CARBON	3.9K	1/8W
R439	1-246-794-00	CARBON	8.2K	1/8W
R440	1-246-794-00	CARBON	8.2K	1/8W
R441	1-246-799-00	CARBON	22K	1/8W
R442	1-246-794-00	CARBON	8.2K	1/8W

Ref.No.	Part No.	Description			Remark
R443	1-246-799-00	CARBON	22K	1/8W	
R444	1-246-794-00	CARBON	8.2K	1/8W	
R445	1-246-801-00	CARBON	33K	1/8W	
R446	1-246-799-00	CARBON	22K	1/8W	
R447	1-246-799-00	CARBON	22K	1/8W	
R448	1-246-799-00	CARBON	22K	1/8W	
R449	1-246-799-00	CARBON	22K	1/8W	
R450	1-246-801-00	CARBON	33K	1/8W	
R451	1-246-801-00	CARBON	33K	1/8W	
R452	1-246-807-00	CARBON	100K	1/8W	
R453	1-246-805-00	CARBON	68K	1/8W	
R454	1-246-805-00	CARBON	68K	1/8W	
R455	1-246-805-00	CARBON	68K	1/8W	
R456	1-246-794-00	CARBON	8.2K	1/8W	
R457	1-246-811-00	CARBON	220K	1/8W	
R458	1-246-807-00	CARBON	100K	1/8W	
R459	1-246-805-00	CARBON	68K	1/8W	
R460	1-246-783-00	CARBON	1K	1/8W	
R461	1-246-801-00	CARBON	33K	1/8W	
R462	1-246-805-00	CARBON	68K	1/8W	
R463	1-246-807-00	CARBON	100K	1/8W	
R464	1-246-803-00	CARBON	47K	1/8W	
R465	1-246-807-00	CARBON	100K	1/8W	
R466	1-246-794-00	CARBON	8.2K	1/8W	
R467	1-246-811-00	CARBON	220K	1/8W	
R468	1-246-783-00	CARBON	1K	1/8W	
R469	1-246-805-00	CARBON	68K	1/8W	
R470	1-246-805-00	CARBON	68K	1/8W	
R471	1-246-805-00	CARBON	68K	1/8W	
R472	1-246-807-00	CARBON	100K	1/8W	
R473	1-246-807-00	CARBON	100K	1/8W	
R474	1-246-805-00	CARBON	68K	1/8W	
R475	1-246-805-00	CARBON	68K	1/8W	
R476	1-246-807-00	CARBON	100K	1/8W	
R477	1-246-805-00	CARBON	68K	1/8W	
R478	1-246-807-00	CARBON	100K	1/8W	
R479	1-246-794-00	CARBON	8.2K	1/8W	
R480	1-246-783-00	CARBON	1K	1/8W	
R481	1-246-811-00	CARBON	220K	1/8W	
R483	1-246-807-00	CARBON	100K	1/8W	
R484	1-246-805-00	CARBON	68K	1/8W	
R501	1-246-803-00	CARBON	47K	1/8W	
R502	1-246-803-00	CARBON	47K	1/8W	
R516	1-246-805-00	CARBON	68K	1/8W	
R517	1-246-811-00	CARBON	220K	1/8W	
R519	1-246-801-00	CARBON	33K	1/8W	
R520	1-246-804-00	CARBON	56K	1/8W	
R521	1-246-808-00	CARBON	120K	1/8W	
R522	1-214-160-00	METAL	15K 1%	1/4W	
R523	1-214-124-00	METAL	470 1%	1/4W	
R524	1-214-160-00	METAL	15K 1%	1/4W	
R525	1-214-167-00	METAL	30K 1%	1/4W	
R526	1-214-174-00	METAL	56K 1%	1/4W	

When indicating parts by reference number, please include the board name.

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Ref.No.	Part No.	Description				Remark
R527	1-246-861-00	CARBON	30K		1/8W	
R528	1-246-797-00	CARBON	15K		1/8W	
R529	1-246-797-00	CARBON	15K		1/8W	
R530	1-246-791-00	CARBON	4.7K		1/8W	
R531	1-246-801-00	CARBON	33K		1/8W	
R532	1-246-787-00	CARBON	2.2K		1/8W	
R533	1-246-799-00	CARBON	22K		1/8W	
R534	1-246-807-00	CARBON	100K		1/8W	
R536	1-246-863-00	CARBON	43K		1/8W	
R537	1-246-811-00	CARBON	220K		1/8W	
R538	1-246-804-00	CARBON	56K		1/8W	
R539	1-246-803-00	CARBON	47K		1/8W	
R540	1-246-789-00	CARBON	3.3K		1/8W	
R545	1-246-789-00	CARBON	3.3K		1/8W	
R546	1-246-811-00	CARBON	220K		1/8W	
R547	1-246-863-00	CARBON	43K		1/8W	
R548	1-246-803-00	CARBON	47K		1/8W	
R549	1-246-807-00	CARBON	100K		1/8W	
R550	1-246-805-00	CARBON	68K		1/8W	
R551	1-246-811-00	CARBON	220K		1/8W	
R554	1-246-801-00	CARBON	33K		1/8W	
R555	1-246-804-00	CARBON	56K		1/8W	
R556	1-246-808-00	CARBON	120K		1/8W	
R557	1-214-160-00	METAL	15K	1%	1/4W	
R558	1-214-124-00	METAL	470	1%	1/4W	
R559	1-214-160-00	METAL	15K	1%	1/4W	
R560	1-214-174-00	METAL	56K	1%	1/4W	
R561	1-214-167-00	METAL	30K	1%	1/4W	
R562	1-246-861-00	CARBON	30K		1/8W	
R563	1-246-797-00	CARBON	15K		1/8W	
R564	1-246-797-00	CARBON	15K		1/8W	
R565	1-246-807-00	CARBON	100K		1/8W	
R566	1-246-799-00	CARBON	22K		1/8W	
R567	1-246-791-00	CARBON	4.7K		1/8W	
R568	1-246-801-00	CARBON	33K		1/8W	
R569	1-246-787-00	CARBON	2.2K		1/8W	
R569	1-246-805-00	CARBON	68K		1/8W	
R573	1-246-759-00	CARBON	10		1/8W	
R574	1-246-759-00	CARBON	10		1/8W	
R575	1-246-980-00	CARBON	3.3	5%	1/8W	F
R577	1-246-859-00	CARBON	20K		1/8W	
R580	1-246-799-00	CARBON	22K		1/8W	
R582	1-246-794-00	CARBON	8.2K		1/8W	
R588	1-246-784-00	CARBON	1.2K		1/8W	
R589	1-246-784-00	CARBON	1.2K		1/8W	
R590	1-246-787-00	CARBON	2.2K		1/8W	
R591	1-246-787-00	CARBON	2.2K		1/8W	
R593	1-246-804-00	CARBON	56K		1/8W	
R594	1-246-807-00	CARBON	100K		1/8W	
R595	1-246-795-00	CARBON	10K		1/8W	
R596	1-246-519-00	CARBON	82K	5%	1/4W	
R603	1-246-791-00	CARBON	4.7K		1/8W	
R604	1-246-791-00	CARBON	4.7K		1/8W	

Ref.No.	Part No.	Description				Remark
R605	1-246-521-00	CARBON	100K	5%	1/4W	
R606	1-246-539-00	CARBON	560K	5%	1/4W	
R607	1-246-517-00	CARBON	68K	5%	1/4W	
R608	1-246-768-00	CARBON	56		1/8W	
R609	1-246-858-00	CARBON	16K		1/8W	
R610	1-247-056-00	CARBON	360K		1/8W	
R611	1-246-797-00	CARBON	15K		1/8W	
R612	1-246-513-00	CARBON	47K	5%	1/4W	
R613	1-246-796-00	CARBON	12K		1/8W	
R614	1-246-795-00	CARBON	10K		1/8W	
R615	1-246-505-00	CARBON	22K	5%	1/4W	
R616	1-246-792-00	CARBON	5.6K		1/8W	
R617	1-246-807-00	CARBON	100K		1/8W	
R618	1-246-795-00	CARBON	10K		1/8W	
R619	1-246-519-00	CARBON	82K	5%	1/4W	
R628	1-246-521-00	CARBON	100K	5%	1/4W	
R629	1-246-539-00	CARBON	560K	5%	1/4W	
R630	1-246-517-00	CARBON	68K	5%	1/4W	
R631	1-246-768-00	CARBON	56		1/8W	
R632	1-246-858-00	CARBON	16K		1/8W	
R633	1-247-056-00	CARBON	360K		1/8W	
R634	1-246-797-00	CARBON	15K		1/8W	
R635	1-246-513-00	CARBON	47K	5%	1/4W	
R636	1-246-796-00	CARBON	12K		1/8W	
R637	1-246-795-00	CARBON	10K		1/8W	
R638	1-246-505-00	CARBON	22K	5%	1/4W	
R639	1-246-792-00	CARBON	5.6K		1/8W	
R640	1-246-799-00	CARBON	22K		1/8W	
R641	1-246-801-00	CARBON	33K		1/8W	
R642	1-246-794-00	CARBON	8.2K		1/8W	
R643	1-247-059-00	CARBON	620K		1/8W	
R644	1-246-799-00	CARBON	22K		1/8W	
R645	1-246-794-00	CARBON	8.2K		1/8W	
R646	1-247-059-00	CARBON	620K		1/8W	
R647	1-247-053-00	CARBON	1M		1/8W	
R648	1-247-053-00	CARBON	1M		1/8W	
R649	1-247-047-00	CARBON	330K		1/8W	
R650	1-246-791-00	CARBON	4.7K		1/8W	
R651	1-246-799-00	CARBON	22K		1/8W	
R652	1-246-789-00	CARBON	3.3K		1/8W	
R653	1-247-046-00	CARBON	270K		1/8W	
R654	1-246-811-00	CARBON	220K		1/8W	
R655	1-246-789-00	CARBON	3.3K		1/8W	
R656	1-247-046-00	CARBON	270K		1/8W	
R657	1-246-811-00	CARBON	220K		1/8W	
R658	1-246-807-00	CARBON	100K		1/8W	
R660	1-246-807-00	CARBON	100K		1/8W	
R661	1-246-805-00	CARBON	68K		1/8W	
R662	1-246-787-00	CARBON	2.2K		1/8W	
R663	1-247-048-00	CARBON	390K		1/8W	
R664	1-246-795-00	CARBON	10K		1/8W	
R665	1-246-795-00	CARBON	10K		1/8W	
R666	1-246-795-00	CARBON	10K		1/8W	

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description				Remark
R668	1-246-795-00	CARBON	10K		1/8W	
R669	1-246-803-00	CARBON	47K		1/8W	
R670	1-246-784-00	CARBON	1.2K		1/8W	
R671 ⚠	1-212-869-51	FUSIBLE	33	5%	1/4W	F
R672	1-246-771-00	CARBON	100		1/8W	
R673	1-246-788-00	CARBON	2.7K		1/8W	
R686	1-246-803-00	CARBON	47K		1/8W	
R687	1-246-787-00	CARBON	2.2K		1/8W	
R688	1-246-811-00	CARBON	220K		1/8W	
R689	1-246-811-00	CARBON	220K		1/8W	
R690	1-246-803-00	CARBON	47K		1/8W	
R691	1-246-787-00	CARBON	2.2K		1/8W	
R692	1-247-059-00	CARBON	620K		1/8W	
R693	1-247-059-00	CARBON	620K		1/8W	
R694	1-246-789-00	CARBON	3.3K		1/8W	
R695	1-246-789-00	CARBON	3.3K		1/8W	
R696	1-246-792-00	CARBON	5.6K		1/8W	
R697	1-246-791-00	CARBON	4.7K		1/8W	
R698	1-246-803-00	CARBON	47K		1/8W	
R699	1-246-792-00	CARBON	5.6K		1/8W	
R700	1-246-791-00	CARBON	4.7K		1/8W	
R701	1-246-803-00	CARBON	47K		1/8W	
R704	1-246-855-00	CARBON	9.1K		1/8W	
R705	1-246-777-00	CARBON	330		1/8W	
R706	1-246-807-00	CARBON	100K		1/8W	
R709	1-246-791-00	CARBON	4.7K		1/8W	
R711	1-246-801-00	CARBON	33K		1/8W	
R714	1-246-803-00	CARBON	47K		1/8W	
R715	1-246-771-00	CARBON	100		1/8W	
R716	1-246-771-00	CARBON	100		1/8W	
R717	1-246-803-00	CARBON	47K		1/8W	
R721	1-246-798-00	CARBON	18K		1/8W	
R722	1-246-860-00	CARBON	24K		1/8W	
R723	1-246-861-00	CARBON	30K		1/8W	
R724	1-246-777-00	CARBON	330		1/8W	
R726	1-246-807-00	CARBON	100K		1/8W	
R727	1-246-797-00	CARBON	15K		1/8W	
R728	1-246-788-00	CARBON	2.7K		1/8W	
R729	1-246-771-00	CARBON	100		1/8W	
R730	1-246-797-00	CARBON	15K		1/8W	
R732	1-246-807-00	CARBON	100K		1/8W	
R733	1-246-797-00	CARBON	15K		1/8W	
R734	1-246-798-00	CARBON	18K		1/8W	
R735	1-246-860-00	CARBON	24K		1/8W	
R736	1-246-861-00	CARBON	30K		1/8W	
R737	1-246-776-00	CARBON	270		1/8W	
R739	1-246-807-00	CARBON	100K		1/8W	
R740	1-246-797-00	CARBON	15K		1/8W	
R741	1-246-788-00	CARBON	2.7K		1/8W	
R742	1-246-771-00	CARBON	100		1/8W	
R743	1-246-797-00	CARBON	15K		1/8W	
R745	1-246-807-00	CARBON	100K		1/8W	
R746	1-246-797-00	CARBON	15K		1/8W	

Ref.No.	Part No.	Description				Remark
R747	1-246-792-00	CARBON	5.6K		1/8W	
R748	1-246-792-00	CARBON	5.6K		1/8W	
R749	1-246-807-00	CARBON	100K		1/8W	
R750	1-246-852-00	CARBON	5.1K		1/8W	
R751	1-246-799-00	CARBON	22K		1/8W	
R752	1-246-801-00	CARBON	33K		1/8W	
R753	1-246-796-00	CARBON	12K		1/8W	
R755	1-246-801-00	CARBON	33K		1/8W	
R756	1-246-807-00	CARBON	100K		1/8W	
R757	1-246-852-00	CARBON	5.1K		1/8W	
R758	1-246-801-00	CARBON	33K		1/8W	
R759	1-246-799-00	CARBON	22K		1/8W	
R760	1-246-796-00	CARBON	12K		1/8W	
R801 ⚠	1-213-128-00	METAL	56	5%	1W	F
R802	1-246-756-00	CARBON	5.6		1/8W	
R817	1-246-799-00	CARBON	22K		1/8W	
R818	1-246-799-00	CARBON	22K		1/8W	
R819	1-246-771-00	CARBON	100		1/8W	
R820	1-246-805-00	CARBON	68K		1/8W	
R821	1-246-807-00	CARBON	100K		1/8W	
R822	1-246-807-00	CARBON	100K		1/8W	
R823	1-246-805-00	CARBON	68K		1/8W	
R826	1-246-771-00	CARBON	100		1/8W	
R827	1-246-783-00	CARBON	1K		1/8W	
R829	1-246-794-00	CARBON	8.2K		1/8W	
R830	1-246-805-00	CARBON	68K		1/8W	
R839	1-246-801-00	CARBON	33K		1/8W	
R840	1-246-801-00	CARBON	33K		1/8W	
R841	1-246-795-00	CARBON	10K		1/8W	
R842	1-246-799-00	CARBON	22K		1/8W	
R843	1-246-799-00	CARBON	22K		1/8W	
R844	1-246-795-00	CARBON	10K		1/8W	
R845	1-246-795-00	CARBON	10K		1/8W	
R846	1-246-783-00	CARBON	1K		1/8W	
R848	1-246-787-00	CARBON	2.2K		1/8W	
R849	1-246-800-00	CARBON	27K		1/8W	
R854	1-246-799-00	CARBON	22K		1/8W	
R855	1-246-799-00	CARBON	22K		1/8W	
R856	1-246-780-00	CARBON	560		1/8W	
R861	1-246-795-00	CARBON	10K		1/8W	
R862	1-246-791-00	CARBON	4.7K		1/8W	
R863	1-246-799-00	CARBON	22K		1/8W	
R864	1-246-799-00	CARBON	22K		1/8W	
R865	1-246-795-00	CARBON	10K		1/8W	
R866	1-246-800-00	CARBON	27K		1/8W	
R867	1-246-800-00	CARBON	27K		1/8W	
R871	1-246-807-00	CARBON	100K		1/8W	
R872	1-246-799-00	CARBON	22K		1/8W	
R873	1-246-799-00	CARBON	22K		1/8W	
R901	1-246-801-00	CARBON	33K		1/8W	
R911	1-246-791-00	CARBON	4.7K		1/8W	

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

AM-1 SS-11

Ref.No.	Part No.	Description	Remark
		VARIABLE RESISTOR	
RV501	1-224-255-XX	RES, ADJ, SOLID 100K	
RV502	1-224-254-XX	RES, ADJ, SOLID 47K	
RV503	1-224-249-XX	RES, ADJ, SOLID 1K	
RV504	1-224-249-XX	RES, ADJ, SOLID 1K	
RV505	1-224-254-XX	RES, ADJ, SOLID 47K	
RV506	1-224-251-XX	RES, ADJ, SOLID 4.7K	
RV507	1-224-251-XX	RES, ADJ, SOLID 4.7K	
RV508	1-224-256-XX	RES, ADJ, SOLID 220K	
RV509	1-224-256-XX	RES, ADJ, SOLID 220K	
RV510	1-224-255-XX	RES, ADJ, SOLID 100K	
RV511	1-224-255-XX	RES, ADJ, SOLID 100K	
RV512	1-224-255-XX	RES, ADJ, SOLID 100K	
		RELAY	
RY501	1-515-418-00	RELAY	
RY502	1-515-418-00	RELAY	
RY503	1-515-416-00	RELAY	
RY504	1-515-416-00	RELAY	
		TRANSFORMER	
T501	1-433-237-00	TRANSFORMER, OSCILLATOR	
T503	1-409-354-00	COIL, TRAP	
T505	1-235-059-00	COIL, (L.P.F)	
T506	1-235-059-00	COIL, (L.P.F)	
**********			
♣:A-6715-153-A		SS-11 BOARD, COMPLETE	
		**********	
	1-533-162-00	HOLDER, FUSE	
♣:3-655-214-00		CLIP, CABLE	
♣:3-671-839-00		CASE (MAIN), SHIELD, SS-10	
		CAPACITOR	
C001	1-123-820-00	ELECT 33MF 20% 16V	
C002	1-161-019-00	CERAMIC 0.033MF 10% 25V	
C003	1-123-617-00	ELECT 10MF 20% 16V	
C004	1-123-617-00	ELECT 10MF 20% 16V	
C005	1-161-039-00	CERAMIC 0.001MF 10% 25V	
C006	1-123-333-00	ELECT 100MF 20% 16V	
C007	1-123-820-00	ELECT 33MF 20% 16V	
C008	1-161-019-00	CERAMIC 0.033MF 10% 25V	
C009	1-130-482-00	MYLAR 0.0082MF 5% 50V	
C010	1-130-482-00	MYLAR 0.0082MF 5% 50V	
C011	1-123-612-00	ELECT 2.2MF 20% 50V	
C012	1-123-612-00	ELECT 2.2MF 20% 50V	
C013	1-123-611-00	ELECT 1MF 20% 50V	
C014	1-123-611-00	ELECT 1MF 20% 50V	
C015	1-123-611-00	ELECT 1MF 20% 50V	
C016	1-123-611-00	ELECT 1MF 20% 50V	
C017	1-123-617-00	ELECT 10MF 20% 16V	
C018	1-123-820-00	ELECT 33MF 20% 16V	

Ref.No.	Part No.	Description	Remark
C019	1-161-019-00	CERAMIC 0.033MF 10% 25V	
C020	1-123-820-00	ELECT 33MF 20% 16V	
C021	1-161-019-00	CERAMIC 0.033MF 10% 25V	
C022	1-123-611-00	ELECT 1MF 20% 50V	
C023	1-123-611-00	ELECT 1MF 20% 50V	
C024	1-161-009-00	CERAMIC 0.0047MF 10% 25V	
C026	1-161-039-00	CERAMIC 0.001MF 10% 25V	
C028	1-123-611-00	ELECT 1MF 20% 50V	
C029	1-123-613-00	ELECT 3.3MF 20% 50V	
C030	1-123-820-00	ELECT 33MF 20% 16V	
C031	1-161-019-00	CERAMIC 0.033MF 10% 25V	
C032	1-161-019-00	CERAMIC 0.033MF 10% 25V	
C033	1-123-820-00	ELECT 33MF 20% 16V	
C034	1-161-019-00	CERAMIC 0.033MF 10% 25V	
C035	1-161-021-00	CERAMIC 0.047MF 10% 25V	
C036	1-161-021-00	CERAMIC 0.047MF 10% 25V	
C037	1-161-005-00	CERAMIC 0.0022MF 10% 25V	
C038	1-123-616-00	ELECT 4.7MF 20% 25V	
C039	1-161-019-00	CERAMIC 0.033MF 10% 25V	
C040	1-161-019-00	CERAMIC 0.033MF 10% 25V	
C041	1-123-611-00	ELECT 1MF 20% 50V	
C042	1-161-025-00	CERAMIC 0.1MF 10% 25V	
C043	1-161-025-00	CERAMIC 0.1MF 10% 25V	
C044	1-161-005-00	CERAMIC 0.0022MF 10% 25V	
C045	1-161-005-00	CERAMIC 0.0022MF 10% 25V	
C301	1-161-021-00	CERAMIC 0.047MF 10% 25V	
C302	1-130-491-51	MYLAR 0.047MF 5% 50V	
C303	1-130-491-51	MYLAR 0.047MF 5% 50V	
C304	1-123-613-00	ELECT 3.3MF 20% 50V	
C305	1-123-613-00	ELECT 3.3MF 20% 50V	
C306	1-123-613-00	ELECT 3.3MF 20% 50V	
C307	1-130-483-51	MYLAR 0.01MF 5% 50V	
C308	1-161-013-00	CERAMIC 0.01MF 10% 25V	
C309	1-130-483-51	MYLAR 0.01MF 5% 50V	
C310	1-123-298-00	ELECT 470MF 20% 6.3V	
C311	1-161-021-00	CERAMIC 0.047MF 10% 25V	
C312	1-161-017-00	CERAMIC 0.022MF 10% 25V	
C317	1-123-611-00	ELECT 1MF 20% 50V	
C318	1-123-618-00	ELECT 22MF 20% 6.3V	
C319	1-123-333-00	ELECT 100MF 20% 16V	
C321	1-123-820-00	ELECT 33MF 20% 16V	
C322	1-123-820-00	ELECT 33MF 20% 16V	
C323	1-161-021-00	CERAMIC 0.047MF 10% 25V	
C324	1-123-616-00	ELECT 4.7MF 20% 25V	
C325	1-130-483-51	MYLAR 0.01MF 5% 50V	
C326	1-123-822-00	ELECT 47MF 20% 10V	
C327	1-123-612-00	ELECT 2.2MF 20% 50V	
C328	1-131-345-00	ELECT(SOLID) 0.47MF 10% 25V	
C329	1-161-019-00	CERAMIC 0.033MF 10% 25V	
C330	1-123-617-00	ELECT 10MF 20% 16V	
C331	1-161-017-00	CERAMIC 0.022MF 10% 25V	
C332	1-161-016-00	CERAMIC 0.018MF 10% 25V	
C333	1-161-002-00	CERAMIC 0.0012MF 10% 25V	

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description			Remark
C334	1-161-013-00	CERAMIC	0.01MF	10%	25V
C335	1-130-494-51	MYLAR	0.082MF	5%	50V
C336	1-123-613-00	ELECT	3.3MF	20%	50V
C337	1-102-978-00	CERAMIC	220PF	5%	50V
C338	1-123-297-00	ELECT	330MF	20%	6.3V
C339	1-131-375-00	TANTALUM	4.7MF	20%	10V
C340	1-131-375-00	TANTALUM	4.7MF	20%	10V
C341	1-130-489-51	MYLAR	0.033MF	5%	50V
C342	1-123-622-00	ELECT	22MF	20%	16V
C343	1-123-647-00	ELECT	47MF	20%	6.3V
C344	1-123-661-00	ELECT	100MF	20%	6.3V
C345	1-161-017-00	CERAMIC	0.022MF	10%	25V
C346	1-161-013-00	CERAMIC	0.01MF	10%	25V
C347	1-161-016-00	CERAMIC	0.018MF	10%	25V
C348	1-131-368-00	TANTALUM	3.3MF	20%	16V
C349	1-131-347-00	TANTALUM	1MF	20%	35V
C350	1-123-647-00	ELECT	47MF	20%	6.3V
C351	1-123-612-00	ELECT	2.2MF	20%	50V
C352	1-123-821-00	ELECT	47MF	20%	16V
C353	1-161-013-00	CERAMIC	0.01MF	10%	25V
C354	1-102-114-00	CERAMIC	470PF	10%	50V
C355	1-161-013-00	CERAMIC	0.01MF	10%	25V
C356	1-123-647-00	ELECT	47MF	20%	6.3V
C357	1-123-616-00	ELECT	4.7MF	20%	25V
C361	1-123-616-00	ELECT	4.7MF	20%	25V
C362	1-123-612-00	ELECT	2.2MF	20%	50V
C370	1-161-021-00	CERAMIC	0.047MF	10%	25V
C371	1-161-021-00	CERAMIC	0.047MF	10%	25V
C373	1-123-616-00	ELECT	4.7MF	20%	25V
C374	1-161-021-00	CERAMIC	0.047MF	10%	25V
C401	1-130-499-51	MYLAR	0.22MF	5%	50V
C402	1-123-616-00	ELECT	4.7MF	20%	25V
C403	1-130-477-00	MYLAR	0.0033MF	5%	50V
C404	1-130-483-51	MYLAR	0.01MF	5%	50V
C405	1-123-298-00	ELECT	470MF	20%	6.3V
C601	1-161-021-00	CERAMIC	0.047MF	10%	25V
C602	1-161-021-00	CERAMIC	0.047MF	10%	25V
C603	1-161-021-00	CERAMIC	0.047MF	10%	25V
C604	1-101-880-00	CERAMIC	47PF	5%	50V
C605	1-101-880-00	CERAMIC	47PF	5%	50V
C606	1-161-021-00	CERAMIC	0.047MF	10%	25V
C607	1-123-611-00	ELECT	1MF	20%	50V
C608	1-123-820-00	ELECT	33MF	20%	16V
C609	1-123-566-00	ELECT	2200MF	20%	16V
C610	1-161-021-00	CERAMIC	0.047MF	10%	25V
C611	1-161-021-00	CERAMIC	0.047MF	10%	25V
C612	1-161-021-00	CERAMIC	0.047MF	10%	25V
C613	1-123-613-00	ELECT	3.3MF	20%	50V
C614	1-161-021-00	CERAMIC	0.047MF	10%	25V
C615	1-161-021-00	CERAMIC	0.047MF	10%	25V
C616	1-161-021-00	CERAMIC	0.047MF	10%	25V
C617	1-123-617-00	ELECT	10MF	20%	16V
C618	1-123-822-00	ELECT	47MF	20%	10V

Ref.No.	Part No.	Description			Remark
C619	1-123-819-00	ELECT	33MF	20%	25V
C620	1-123-819-00	ELECT	33MF	20%	25V
C621	1-161-023-00	CERAMIC	0.068MF	10%	25V
C622	1-123-610-00	ELECT	0.47MF	20%	50V
C623	1-161-021-00	CERAMIC	0.047MF	10%	25V
C624	1-102-951-00	CERAMIC	15PF	5%	50V
C625	1-161-017-00	CERAMIC	0.022MF	10%	25V

CONNECTOR

CN001♣	1-560-466-00	PIN, CONNECTOR 3P
CN002♣	1-560-466-00	PIN, CONNECTOR 3P
CN003♣	1-560-469-00	PIN, CONNECTOR 6P
CN301♣	1-560-467-00	PIN, CONNECTOR 4P
CN302♣	1-560-466-00	PIN, CONNECTOR 3P
CN303♣	1-560-467-00	PIN, CONNECTOR 4P
CN304♣	1-560-456-00	PIN, CONNECTOR 2P
CN305♣	1-560-467-00	PIN, CONNECTOR 4P
CN306♣	1-560-466-00	PIN, CONNECTOR 3P
CN307♣	1-560-467-00	PIN, CONNECTOR 4P
CN308♣	1-560-472-00	PIN, CONNECTOR 12P
CN310♣	1-560-466-00	PIN, CONNECTOR 3P
CN601♣	1-560-468-00	PIN, CONNECTOR 5P
CN602♣	1-560-470-00	PIN, CONNECTOR 8P
CN604♣	1-560-466-00	PIN, CONNECTOR 3P
CN610	1-560-470-00	PIN, CONNECTOR 8P
CN612♣	1-560-467-00	PIN, CONNECTOR 4P
CN613♣	1-560-470-00	PIN, CONNECTOR 8P
CN614♣	1-560-468-00	PIN, CONNECTOR 5P
CN616♣	1-560-591-00	PIN, CONNECTOR 7P
CN617♣	1-560-466-00	PIN, CONNECTOR 3P
CN618♣	1-560-466-00	PIN, CONNECTOR 3P
CN619♣	1-560-466-00	PIN, CONNECTOR 3P
CN620♣	1-560-468-00	PIN, CONNECTOR 5P
CN622♣	1-560-591-00	PIN, CONNECTOR 7P
CN623♣	1-560-471-00	PIN, CONNECTOR 10P
CN624♣	1-560-467-00	PIN, CONNECTOR 4P
CN625♣	1-560-470-00	PIN, CONNECTOR 8P
CN626♣	1-560-470-00	PIN, CONNECTOR 8P
CN627♣	1-560-469-00	PIN, CONNECTOR 6P
CN628	1-561-703-00	CONNECTOR, DIN 8P
CN701	1-560-471-00	PIN, CONNECTOR 10P

DIODE

D001	8-719-911-06	DIODE 1SS106
D002	8-719-911-06	DIODE 1SS106
D003	8-719-911-19	DIODE 1SS119
D008	8-719-911-19	DIODE 1SS119
D009	8-719-982-04	DIODE ERB81-004
D010	8-719-911-19	DIODE 1SS119
D012	8-719-911-19	DIODE 1SS119
D013	8-719-982-04	DIODE ERB81-004
D014	8-719-911-19	DIODE 1SS119
D015	8-719-911-19	DIODE 1SS119

When indicating parts by reference number, please include the board name.

SS-11

Ref.No.	Part No.	Description	Remark
D301	8-719-911-06	DIODE 1SS106	
D302	8-719-911-19	DIODE 1SS119	
D303	8-719-982-04	DIODE ERB81-004	
D304	8-719-113-07	DIODE RD13E-B	
D308	8-719-911-06	DIODE 1SS106	
D309	8-719-911-19	DIODE 1SS119	
D310	8-719-911-19	DIODE 1SS119	
D311	8-719-911-19	DIODE 1SS119	
D312	8-719-911-19	DIODE 1SS119	
D313	8-719-911-19	DIODE 1SS119	
D314	8-719-911-19	DIODE 1SS119	
D315	8-719-911-19	DIODE 1SS119	
D316	8-719-911-19	DIODE 1SS119	
D318	8-719-911-19	DIODE 1SS119	
D319	8-719-911-19	DIODE 1SS119	
D401	8-719-911-19	DIODE 1SS119	
D402	8-719-911-19	DIODE 1SS119	
D403	8-719-911-19	DIODE 1SS119	
D602	8-719-911-06	DIODE 1SS106	
D604	8-719-200-02	DIODE 10E2	
D605	8-719-200-02	DIODE 10E2	
D606	8-719-200-02	DIODE 10E2	
D607	8-719-200-02	DIODE 10E2	
D608	8-719-200-02	DIODE 10E2	
D611	8-719-200-02	DIODE 10E2	
D612	8-719-200-02	DIODE 10E2	
D613	8-719-200-02	DIODE 10E2	
D614	8-719-200-02	DIODE 10E2	
D617	8-719-200-02	DIODE 10E2	
D618	8-719-200-02	DIODE 10E2	
D619	8-719-200-02	DIODE 10E2	
D620	8-719-200-02	DIODE 10E2	
D621	8-719-911-19	DIODE 1SS119	
D622	8-719-100-58	DIODE RD10E-B3	

FUSE

F001 ⚠	1-532-610-00	FUSE, TIME-LAG	T100MMA
F601 ⚠	1-532-203-00	FUSE, TIME-LAG	T2A
F602 ⚠	1-532-279-00	FUSE, TIME-LAG	T500MMA
F603 ⚠	1-532-237-00	FUSE, TIME-LAG	T3.15A

IC

IC001	8-759-103-93	IC UPC393C	
IC002	8-759-132-40	IC UPC324C	
IC003	8-759-132-40	IC UPC324C	
IC004	8-759-103-93	IC UPC393C	
IC005	8-743-980-00	IC BX-3980	
IC006	8-743-976-00	IC BX-3976	
IC301	8-751-940-03	IC CX-194A-3	
IC302	8-741-104-30	IC BX-1043	
IC303	8-743-983-00	IC BX-3983	
IC304	8-759-132-40	IC UPC324C	
IC305	8-759-904-94	IC TL494CN	
IC306	8-743-978-00	IC BX-3978	
IC307	8-759-240-30	IC TC4030BP	
IC308	8-759-240-53	IC TC4053BP	
IC309	8-741-103-90	IC BX-1039	
IC310	8-743-981-00	IC BX-3981	
IC311	8-741-103-80	IC BX-1038	
IC312	8-759-250-26	IC TC5026BP	
IC313	8-759-240-51	IC TC4051BP	
IC314	8-741-013-00	IC BX-1013	
IC601	8-759-903-45	IC MB88401-127M	
IC602	8-759-903-62	IC MB88401-128M	
IC603	8-759-903-63	IC MB88401-129M	
IC604	8-759-103-93	IC UPC393C	
IC605	8-741-104-70	IC BX-1047	
IC606	8-759-220-04	IC TC40H004P	
IC607	8-759-987-58	IC MB8758	
IC608	8-759-240-13	IC TC4013BP	
IC609	8-759-987-58	IC MB8758	
IC610	8-741-101-60	IC BX-1016	
IC611	8-759-240-49	IC TC4049BP	
IC612	8-759-240-69	IC TC4069UBP	

COIL

L001	1-408-519-00	COIL, CHOKE	
L002	1-408-519-00	COIL, CHOKE	
L003	1-408-519-00	COIL, CHOKE	
L301	1-408-518-00	COIL, CHOKE	
L302	1-459-232-00	COIL, CORE	
L601	1-407-693-00	MICRO INDUCTOR 10UH	
L602	1-407-693-00	MICRO INDUCTOR 10UH	

TRANSISTOR

Q001	8-729-117-54	TRANSISTOR 2SA1175	
Q002	8-729-178-54	TRANSISTOR 2SC2785	
Q003	8-729-178-54	TRANSISTOR 2SC2785	
Q004	8-729-178-54	TRANSISTOR 2SC2785	
Q006	8-729-178-54	TRANSISTOR 2SC2785	
Q007	8-729-178-54	TRANSISTOR 2SC2785	
Q008	8-729-117-54	TRANSISTOR 2SA1175	
Q009	8-729-178-54	TRANSISTOR 2SC2785	
Q010	8-729-178-54	TRANSISTOR 2SC2785	
Q011	8-729-178-54	TRANSISTOR 2SC2785	
Q012	8-729-178-54	TRANSISTOR 2SC2785	
Q013	8-729-178-54	TRANSISTOR 2SC2785	
Q014	8-729-178-54	TRANSISTOR 2SC2785	
Q015	8-729-178-54	TRANSISTOR 2SC2785	
Q016	8-729-117-54	TRANSISTOR 2SA1175	
Q017	8-729-113-33	TRANSISTOR 2SB733	
Q018	8-729-113-33	TRANSISTOR 2SB733	
Q019	8-729-178-54	TRANSISTOR 2SC2785	
Q020	8-729-178-54	TRANSISTOR 2SC2785	
Q021	8-729-178-54	TRANSISTOR 2SC2785	

When indicating parts by reference number, please include the board name.

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Ref.No.	Part No.	Description	Remark
Q022	8-729-178-54	TRANSISTOR 2SC2785	
Q023	8-729-178-54	TRANSISTOR 2SC2785	
Q024	8-729-117-54	TRANSISTOR 2SA1175	
Q025	8-729-113-33	TRANSISTOR 2SB733	
Q026	8-729-113-33	TRANSISTOR 2SB733	
Q027	8-729-178-54	TRANSISTOR 2SC2785	
Q028	8-729-178-54	TRANSISTOR 2SC2785	
Q029	8-729-178-54	TRANSISTOR 2SC2785	
Q030	8-729-117-54	TRANSISTOR 2SA1175	
Q031	8-729-117-54	TRANSISTOR 2SA1175	
Q032	8-729-117-54	TRANSISTOR 2SA1175	
Q301	8-729-178-54	TRANSISTOR 2SC2785	
Q302	8-729-177-32	TRANSISTOR 2SD773	
Q303 ⚠	8-729-117-54	TRANSISTOR 2SA1175	
Q304 ⚠	8-729-113-33	TRANSISTOR 2SB733-U2	
Q305	8-729-178-54	TRANSISTOR 2SC2785	
Q307	8-729-178-54	TRANSISTOR 2SC2785	
Q309	8-729-117-54	TRANSISTOR 2SA1175	
Q310	8-729-117-54	TRANSISTOR 2SA1175	
Q311	8-729-178-54	TRANSISTOR 2SC2785	
Q314	8-729-178-54	TRANSISTOR 2SC2785	
Q315	8-729-178-54	TRANSISTOR 2SC2785	
Q317	8-729-178-54	TRANSISTOR 2SC2785	
Q318	8-729-117-54	TRANSISTOR 2SA1175	
Q320	8-729-117-54	TRANSISTOR 2SA1175	
Q321	8-729-117-54	TRANSISTOR 2SA1175	
Q322	8-729-117-54	TRANSISTOR 2SA1175	
Q324	8-729-178-54	TRANSISTOR 2SC2785	
Q325	8-729-178-54	TRANSISTOR 2SC2785	
Q328	8-729-178-54	TRANSISTOR 2SC2785	
Q329	8-729-178-54	TRANSISTOR 2SC2785	
Q330	8-729-117-54	TRANSISTOR 2SA1175	
Q331	8-729-117-54	TRANSISTOR 2SA1175	
Q332	8-729-178-54	TRANSISTOR 2SC2785	
Q333	8-729-117-54	TRANSISTOR 2SA1175	
Q401	8-729-178-54	TRANSISTOR 2SC2785	
Q601	8-729-177-23	TRANSISTOR 2SB772	
Q602	8-729-178-54	TRANSISTOR 2SC2785	
Q603	8-729-178-54	TRANSISTOR 2SC2785	
Q604	8-729-178-54	TRANSISTOR 2SC2785	
Q605	8-729-178-54	TRANSISTOR 2SC2785	
Q606	8-729-178-54	TRANSISTOR 2SC2785	
Q607	8-729-178-54	TRANSISTOR 2SC2785	
Q608	8-729-178-54	TRANSISTOR 2SC2785	
Q609	8-729-178-54	TRANSISTOR 2SC2785	
Q610	8-729-178-54	TRANSISTOR 2SC2785	
Q611	8-729-117-54	TRANSISTOR 2SA1175	
Q612	8-729-116-42	TRANSISTOR 2SD1164	
Q613	8-729-116-42	TRANSISTOR 2SD1164	
Q614	8-729-116-42	TRANSISTOR 2SD1164	
Q615	8-729-116-42	TRANSISTOR 2SD1164	
Q616	8-729-178-54	TRANSISTOR 2SC2785	
Q617	8-729-113-33	TRANSISTOR 2SB733	
Q618	8-729-177-32	TRANSISTOR 2SD773	
Q619	8-729-113-33	TRANSISTOR 2SB733	
Q620	8-729-177-32	TRANSISTOR 2SD773	
Q621	8-729-178-54	TRANSISTOR 2SC2785	
Q622	8-729-178-54	TRANSISTOR 2SC2785	
Q623	8-729-113-33	TRANSISTOR 2SB733	
Q624	8-729-177-32	TRANSISTOR 2SD773	
Q625	8-729-113-33	TRANSISTOR 2SB733	
Q626	8-729-177-32	TRANSISTOR 2SD773	
Q627	8-729-178-54	TRANSISTOR 2SC2785	
Q628	8-729-178-54	TRANSISTOR 2SC2785	
Q629	8-729-178-54	TRANSISTOR 2SC2785	
Q630	8-729-178-54	TRANSISTOR 2SC2785	
Q631	8-729-178-54	TRANSISTOR 2SC2785	
Q632	8-729-178-54	TRANSISTOR 2SC2785	

RESISTOR

Ref.No.	Part No.				Remark
R001	1-246-789-00	CARBON	3.3K	1/8W	
R002	1-246-789-00	CARBON	3.3K	1/8W	
R011	1-246-803-00	CARBON	47K	1/8W	
R014	1-247-055-00	CARBON	300K	1/8W	
R015	1-246-809-00	CARBON	150K	1/8W	
R016	1-246-807-00	CARBON	100K	1/8W	
R017	1-246-803-00	CARBON	47K	1/8W	
R018	1-246-799-00	CARBON	22K	1/8W	
R020	1-246-799-00	CARBON	22K	1/8W	
R021	1-246-803-00	CARBON	47K	1/8W	
R022	1-246-794-00	CARBON	8.2K	1/8W	
R023	1-246-785-00	CARBON	1.5K	1/8W	
R024	1-246-790-00	CARBON	3.9K	1/8W	
R025	1-246-849-00	CARBON	3K	1/8W	
R026	1-246-798-00	CARBON	18K	1/8W	
R027	1-246-783-00	CARBON	1K	1/8W	
R028	1-246-853-00	CARBON	6.2K	1/8W	
R029	1-246-792-00	CARBON	5.6K	1/8W	
R030	1-246-803-00	CARBON	47K	1/8W	
R031	1-246-791-00	CARBON	4.7K	1/8W	
R032	1-246-803-00	CARBON	47K	1/8W	
R035	1-246-803-00	CARBON	47K	1/8W	
R037	1-246-783-00	CARBON	1K	1/8W	
R038	1-246-799-00	CARBON	22K	1/8W	
R041	1-246-799-00	CARBON	22K	1/8W	
R042	1-246-799-00	CARBON	22K	1/8W	
R043	1-246-795-00	CARBON	10K	1/8W	
R044	1-246-803-00	CARBON	47K	1/8W	
R045	1-246-449-00	CARBON	100 5%	1/4W	
R046	1-246-457-00	CARBON	220 5%	1/4W	
R055	1-244-861-00	CARBON	330 5%	1/2W	
R056	1-246-783-00	CARBON	1K	1/8W	
R057 ⚠	1-217-612-00	WIREWOUND	0.1	2W	
R058	1-246-801-00	CARBON	33K	1/8W	
R059	1-246-801-00	CARBON	33K	1/8W	
R060	1-246-860-00	CARBON	24K	1/8W	

NOTE:

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When indicating parts by reference number, please include the board name.

SS-11

Ref.No.	Part No.	Description				Remark
R061	1-246-800-00	CARBON	27K		1/8W	
R064	1-247-049-00	CARBON	470K		1/8W	
R068	1-246-795-00	CARBON	10K		1/8W	
R071	1-247-057-00	CARBON	430K		1/8W	
R073	1-246-795-00	CARBON	10K		1/8W	
R074	1-246-799-00	CARBON	22K		1/8W	
R075	1-246-855-00	CARBON	9.1K		1/8W	
R080	1-246-783-00	CARBON	1K		1/8W	
R081	1-246-807-00	CARBON	100K		1/8W	
R082	1-247-049-00	CARBON	470K		1/8W	
R083	1-246-791-00	CARBON	4.7K		1/8W	
R084	1-246-791-00	CARBON	4.7K		1/8W	
R085	1-246-799-00	CARBON	22K		1/8W	
R089	1-246-795-00	CARBON	10K		1/8W	
R090	1-247-049-00	CARBON	470K		1/8W	
R091	1-246-807-00	CARBON	100K		1/8W	
R093	1-246-803-00	CARBON	47K		1/8W	
R094	1-246-795-00	CARBON	10K		1/8W	
R095	1-246-449-00	CARBON	100	5%	1/4W	
R096	1-246-457-00	CARBON	220	5%	1/4W	
R103	1-244-861-00	CARBON	330	5%	1/2W	
R106	1-246-783-00	CARBON	1K		1/8W	
R108	1-246-803-00	CARBON	47K		1/8W	
R110	1-246-811-00	CARBON	220K		1/8W	
R111	1-246-803-00	CARBON	47K		1/8W	
R113	1-246-803-00	CARBON	47K		1/8W	
R114	1-246-803-00	CARBON	47K		1/8W	
R115	1-246-801-00	CARBON	33K		1/8W	
R116	1-246-847-00	CARBON	2K		1/8W	
R117	1-246-799-00	CARBON	22K		1/8W	
R118	1-246-799-00	CARBON	22K		1/8W	
R119	1-246-803-00	CARBON	47K		1/8W	
R120	1-246-803-00	CARBON	47K		1/8W	
R121	1-246-803-00	CARBON	47K		1/8W	
R122	1-246-803-00	CARBON	47K		1/8W	
R301	1-246-799-00	CARBON	22K		1/8W	
R302	1-246-801-00	CARBON	33K		1/8W	
R303	1-246-797-00	CARBON	15K		1/8W	
R304	1-246-786-00	CARBON	1.8K		1/8W	
R305	1-246-848-00	CARBON	2.4K		1/8W	
R306	1-246-782-00	CARBON	820		1/8W	
R310	1-246-795-00	CARBON	10K		1/8W	
R311	1-246-795-00	CARBON	10K		1/8W	
R312	1-246-795-00	CARBON	10K		1/8W	
R313	1-246-783-00	CARBON	1K		1/8W	
R314	1-246-803-00	CARBON	47K		1/8W	
R315	1-246-791-00	CARBON	4.7K		1/8W	
R316	1-246-805-00	CARBON	68K		1/8W	
R317	1-246-803-00	CARBON	47K		1/8W	
R318	1-246-852-00	CARBON	5.1K		1/8W	
R321	1-246-783-00	CARBON	1K		1/8W	
R322 ⚠	1-212-356-00	METAL	0.47	5%	1W	F
R323	1-246-799-00	CARBON	22K		1/8W	

Ref.No.	Part No.	Description				Remark
R327	1-246-797-00	CARBON	15K		1/8W	
R329 ⚠	1-212-850-00	FUSIBLE	5.1	5%	1/4W	F
R330	1-246-795-00	CARBON	10K		1/8W	
R331	1-246-809-00	CARBON	150K		1/8W	
R334	1-246-801-00	CARBON	33K		1/8W	
R337	1-246-801-00	CARBON	33K		1/8W	
R338	1-246-809-00	CARBON	150K		1/8W	
R339	1-246-810-00	CARBON	180K		1/8W	
R340	1-246-788-00	CARBON	2.7K		1/8W	
R342	1-246-801-00	CARBON	33K		1/8W	
R344	1-246-801-00	CARBON	33K		1/8W	
R345	1-246-801-00	CARBON	33K		1/8W	
R346	1-246-807-00	CARBON	100K		1/8W	
R347	1-246-806-00	CARBON	82K		1/8W	
R348	1-246-801-00	CARBON	33K		1/8W	
R349	1-214-140-00	METAL	2.2K	1%	1/4W	
R350	1-214-140-00	METAL	2.2K	1%	1/4W	
R351	1-214-140-00	METAL	2.2K	1%	1/4W	
R352	1-214-140-00	METAL	2.2K	1%	1/4W	
R354	1-246-795-00	CARBON	10K		1/8W	
R355	1-246-795-00	CARBON	10K		1/8W	
R358	1-246-803-00	CARBON	47K		1/8W	
R364	1-246-805-00	CARBON	68K		1/8W	
R366	1-246-858-00	CARBON	16K		1/8W	
R369	1-246-862-00	CARBON	36K		1/8W	
R370	1-246-801-00	CARBON	33K		1/8W	
R371	1-246-795-00	CARBON	10K		1/8W	
R373	1-246-783-00	CARBON	1K		1/8W	
R374	1-246-804-00	CARBON	56K		1/8W	
R375	1-246-795-00	CARBON	10K		1/8W	
R377	1-246-795-00	CARBON	10K		1/8W	
R378	1-246-799-00	CARBON	22K		1/8W	
R381	1-246-783-00	CARBON	1K		1/8W	
R382	1-246-795-00	CARBON	10K		1/8W	
R387	1-246-795-00	CARBON	10K		1/8W	
R390	1-246-851-00	CARBON	4.3K		1/8W	
R394	1-246-801-00	CARBON	33K		1/8W	
R395	1-246-804-00	CARBON	56K		1/8W	
R396	1-246-810-00	CARBON	180K		1/8W	
R397	1-246-801-00	CARBON	33K		1/8W	
R398	1-246-801-00	CARBON	33K		1/8W	
R399	1-246-837-00	CARBON	300		1/8W	
R400	1-246-795-00	CARBON	10K		1/8W	
R401	1-246-457-00	CARBON	220	5%	1/4W	
R404	1-246-801-00	CARBON	33K		1/8W	
R407	1-246-803-00	CARBON	47K		1/8W	
R408	1-247-049-00	CARBON	470K		1/8W	
R409	1-246-807-00	CARBON	100K		1/8W	
R410	1-247-051-00	CARBON	680K		1/8W	
R411	1-246-803-00	CARBON	47K		1/8W	
R412	1-246-795-00	CARBON	10K		1/8W	
R413	1-246-792-00	CARBON	5.6K		1/8W	
R414	1-246-792-00	CARBON	5.6K		1/8W	

When indicating parts by reference number, please include the board name.

NOTE:

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Ref.No.	Part No.	Description				Remark
R416	1-246-799-00	CARBON	22K		1/8W	
R417	1-246-783-00	CARBON	1K		1/8W	
R452	1-246-797-00	CARBON	15K		1/8W	
R453	1-247-054-00	CARBON	240K		1/8W	
R460	1-246-795-00	CARBON	10K		1/8W	
R468	1-246-791-00	CARBON	4.7K		1/8W	
R473	1-246-803-00	CARBON	47K		1/8W	
R474	1-246-787-00	CARBON	2.2K		1/8W	
R476	1-246-803-00	CARBON	47K		1/8W	
R477	1-246-803-00	CARBON	47K		1/8W	
R478	1-246-803-00	CARBON	47K		1/8W	
R479	1-246-807-00	CARBON	100K		1/8W	
R480	1-246-803-00	CARBON	47K		1/8W	
R481	1-246-803-00	CARBON	47K		1/8W	
R482	1-246-803-00	CARBON	47K		1/8W	
R483	1-246-799-00	CARBON	22K		1/8W	
R484	1-246-791-00	CARBON	4.7K		1/8W	
R485	1-246-803-00	CARBON	47K		1/8W	
R486	1-246-803-00	CARBON	47K		1/8W	
R487	1-246-795-00	CARBON	10K		1/8W	
R488	1-246-800-00	CARBON	27K		1/8W	
R489	1-246-845-00	CARBON	1.3K		1/8W	
R490	1-246-845-00	CARBON	1.3K		1/8W	
R491	1-246-845-00	CARBON	1.3K		1/8W	
R492	1-246-797-00	CARBON	15K		1/8W	
R495 ⚠	1-206-482-00	METAL	62	5%	2W	F
R496	1-246-779-00	CARBON	470		1/8W	
R498	1-246-803-00	CARBON	47K		1/8W	
R499	1-246-791-00	CARBON	4.7K		1/8W	
R501	1-246-850-00	CARBON	3.6K		1/8W	
R502	1-246-791-00	CARBON	4.7K		1/8W	
R503	1-246-759-00	CARBON	10		1/8W	
R511	1-246-783-00	CARBON	1K		1/8W	
R512	1-246-807-00	CARBON	100K		1/8W	
R513	1-246-807-00	CARBON	100K		1/8W	
R514	1-246-803-00	CARBON	47K		1/8W	
R515	1-214-164-00	METAL	22K	1%	1/4W	
R516	1-246-807-00	CARBON	100K		1/8W	
R517	1-246-803-00	CARBON	47K		1/8W	
R518	1-246-803-00	CARBON	47K		1/8W	
R519	1-246-795-00	CARBON	10K		1/8W	
R520	1-246-807-00	CARBON	100K		1/8W	
R521	1-246-803-00	CARBON	47K		1/8W	
R522	1-246-795-00	CARBON	10K		1/8W	
R523	1-246-795-00	CARBON	10K		1/8W	
R524	1-246-803-00	CARBON	47K		1/8W	
R525	1-246-795-00	CARBON	10K		1/8W	
R526	1-246-795-00	CARBON	10K		1/8W	
R527	1-246-803-00	CARBON	47K		1/8W	
R529	1-246-805-00	CARBON	68K		1/8W	
R530 ⚠	1-532-605-00	IC PROTECTION (ICP-N10)				
R603	1-246-799-00	CARBON	22K		1/8W	
R605	1-246-807-00	CARBON	100K		1/8W	

Ref.No.	Part No.	Description				Remark
R607	1-246-807-00	CARBON	100K		1/8W	
R610	1-246-791-00	CARBON	4.7K		1/8W	
R611	1-246-803-00	CARBON	47K		1/8W	
R612	1-246-791-00	CARBON	4.7K		1/8W	
R613	1-246-791-00	CARBON	4.7K		1/8W	
R614	1-246-791-00	CARBON	4.7K		1/8W	
R615	1-246-803-00	CARBON	47K		1/8W	
R616	1-246-803-00	CARBON	47K		1/8W	
R617	1-246-803-00	CARBON	47K		1/8W	
R618	1-246-803-00	CARBON	47K		1/8W	
R619	1-246-803-00	CARBON	47K		1/8W	
R620	1-247-049-00	CARBON	470K		1/8W	
R621	1-246-803-00	CARBON	47K		1/8W	
R622	1-246-803-00	CARBON	47K		1/8W	
R623	1-246-803-00	CARBON	47K		1/8W	
R624	1-246-803-00	CARBON	47K		1/8W	
R625	1-246-797-00	CARBON	15K		1/8W	
R626	1-246-795-00	CARBON	10K		1/8W	
R627	1-246-789-00	CARBON	3.3K		1/8W	
R628	1-246-783-00	CARBON	1K		1/8W	
R629	1-246-783-00	CARBON	1K		1/8W	
R630	1-246-783-00	CARBON	1K		1/8W	
R631	1-246-783-00	CARBON	1K		1/8W	
R632	1-246-791-00	CARBON	4.7K		1/8W	
R633	1-246-787-00	CARBON	2.2K		1/8W	
R634	1-246-787-00	CARBON	2.2K		1/8W	
R635	1-246-793-00	CARBON	6.8K		1/8W	
R636	1-246-791-00	CARBON	4.7K		1/8W	
R637	1-246-783-00	CARBON	1K		1/8W	
R638	1-246-783-00	CARBON	1K		1/8W	
R640	1-246-795-00	CARBON	10K		1/8W	
R641	1-246-859-00	CARBON	20K		1/8W	
R643	1-246-783-00	CARBON	1K		1/8W	
R644	1-246-803-00	CARBON	47K		1/8W	
R645	1-246-801-00	CARBON	33K		1/8W	
R646 ⚠	1-247-587-00	CARBON	0.47	5%	1/4W	
R649	1-246-807-00	CARBON	100K		1/8W	
R654	1-246-807-00	CARBON	100K		1/8W	
R659	1-246-807-00	CARBON	100K		1/8W	
R664	1-246-807-00	CARBON	100K		1/8W	
R667	1-246-795-00	CARBON	10K		1/8W	
R668	1-246-799-00	CARBON	22K		1/8W	
R670	1-246-807-00	CARBON	100K		1/8W	
R671	1-247-058-00	CARBON	510K		1/8W	
R672	1-246-858-00	CARBON	16K		1/8W	
R673	1-246-798-00	CARBON	18K		1/8W	
R674 ⚠	1-206-640-00	METAL	100	5%	2W	F
R675 ⚠	1-206-640-00	METAL	100	5%	2W	F
R676	1-246-783-00	CARBON	1K		1/8W	
R677	1-246-795-00	CARBON	10K		1/8W	
R678	1-246-783-00	CARBON	1K		1/8W	
R679	1-246-807-00	CARBON	100K		1/8W	
R680	1-246-794-00	CARBON	8.2K		1/8W	

NOTE:

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When indicating parts by reference number, please include the board name.

SS-11 JR-1

Ref.No.	Part No.	Description			Remark
R681	1-246-795-00	CARBON	10K	1/8W	
R682	1-246-803-00	CARBON	47K	1/8W	
R683	1-246-803-00	CARBON	47K	1/8W	
R684	1-246-803-00	CARBON	47K	1/8W	
R685	1-246-803-00	CARBON	47K	1/8W	
R686	1-246-803-00	CARBON	47K	1/8W	
R687	1-246-751-00	CARBON	2.2	1/8W	

VARIABLE RESISTOR

RV001	1-226-774-00	RES, ADJ, METAL GLAZE	47K
RV002	1-226-773-00	RES, ADJ, METAL GLAZE	22K
RV301	1-226-753-00	RES, ADJ, SOLID	47K
RV302	1-224-254-XX	RES, ADJ, METAL GLAZE	47K
RV303	1-226-771-00	RES, ADJ, METAL GLAZE	1K
RV304	1-226-753-00	RES, ADJ, SOLID	47K
RV305	1-226-774-00	RES, ADJ, METAL GLAZE	47K
RV307	1-226-703-00	RES, ADJ, METAL GLAZE	10K
RV309	1-226-703-00	RES, ADJ, METAL GLAZE	10K
RV310	1-226-703-00	RES, ADJ, METAL GLAZE	10K
RV314	1-226-775-00	RES, ADJ, METAL GLAZE	100K
RV315	1-226-701-00	RES, ADJ, METAL GLAZE	220
RV316	1-226-701-00	RES, ADJ, METAL GLAZE	220
RV317	1-226-753-00	RES, ADJ, SOLID	47K
RV318	1-226-702-00	RES, ADJ, METAL GLAZE	2.2K
RV319	1-226-704-00	RES, ADJ, METAL GLAZE	470K

THERMISTOR

TH001	1-800-200-00	THERMISTOR S-3K
TH301	1-800-200-00	THERMISTOR S-3K

CRYSTAL

X601	1-527-726-00	VIBRALTOR CRYSTAL

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♣:A-6715-154-A JR-1 BOARD, COMPLETE

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CAPACITOR

C001	1-123-306-00	ELECT	47MF	20%	10V
C002	1-123-328-00	ELECT	4.7MF	20%	25V
C003	1-123-356-00	ELECT	10MF	20%	16V
C004	1-108-563-00	MYLAR	0.0022MF	5%	50V
C005	1-161-013-00	CERAMIC	0.01MF	10%	25V
C006	1-123-356-00	ELECT	10MF	20%	16V
C007	1-108-611-00	MYLAR	0.22MF	5%	50V
C008	1-123-356-00	ELECT	10MF	20%	16V
C009	1-123-356-00	ELECT	10MF	20%	16V
C010	1-161-039-00	CERAMIC	0.001MF	10%	25V
C011	1-131-404-00	ELECT(SOLID)	0.22MF	10%	25V
C012	1-102-126-00	CERAMIC	0.0056MF	10%	50V
C013	1-123-328-00	ELECT	4.7MF	20%	25V
C014	1-161-013-00	CERAMIC	0.01MF	10%	25V
C015	1-123-306-00	ELECT	47MF	20%	10V
C016	1-123-305-00	ELECT	33MF	20%	10V
C017	1-123-356-00	ELECT	10MF	20%	16V
C018	1-123-356-00	ELECT	10MF	20%	16V
C019	1-123-356-00	ELECT	10MF	20%	16V
C020	1-123-356-00	ELECT	10MF	20%	16V
C021	1-102-118-00	CERAMIC	0.0012MF	10%	50V
C022	1-123-356-00	ELECT	10MF	20%	16V
C023	1-123-356-00	ELECT	10MF	20%	16V
C024	1-131-404-00	ELECT(SOLID)	0.22MF	10%	25V
C025	1-130-026-00	FILM	0.0047MF	5%	50V
C026	1-130-022-00	FILM	0.0022MF	5%	50V
C027	1-123-330-00	ELECT	22MF	20%	16V
C028	1-123-306-00	ELECT	47MF	20%	10V
C029	1-161-013-00	CERAMIC	0.01MF	10%	25V
C030	1-127-448-11	ELECT(SOLID)	0.15MF	10%	25V
C031	1-161-013-00	CERAMIC	0.01MF	10%	25V
C032	1-123-295-00	ELECT	100MF	20%	6.3V
C033	1-108-562-00	MYLAR	0.002MF	5%	50V
C034	1-108-562-00	MYLAR	0.002MF	5%	50V
C037	1-123-306-00	ELECT	47MF	20%	10V
C038	1-108-601-00	MYLAR	0.082MF	5%	50V
C040	1-123-306-00	ELECT	47MF	20%	10V
C041	1-123-382-00	ELECT	3.3MF	20%	50V
C042	1-161-017-00	CERAMIC	0.022MF	10%	25V
C043	1-108-563-00	MYLAR	0.0022MF	5%	50V
C044	1-123-356-00	ELECT	10MF	20%	16V
C045	1-123-379-00	ELECT	0.47MF	20%	50V
C046	1-123-379-00	ELECT	0.47MF	20%	50V
C047	1-123-356-00	ELECT	10MF	20%	16V
C048	1-108-595-00	MYLAR	0.047MF	5%	50V
C049	1-127-452-11	ELECT(SOLID)	0.68MF	10%	25V
C050	1-127-453-00	ELECT(SOLID)	1MF	10%	25V
C051	1-123-295-00	ELECT	100MF	20%	6.3V
C052	1-161-017-00	CERAMIC	0.022MF	10%	25V
C203	1-102-978-00	CERAMIC	220PF	5%	50V
C204	1-102-978-00	CERAMIC	220PF	5%	50V
C205	1-123-330-00	ELECT	22MF	20%	16V
C206	1-161-013-00	CERAMIC	0.01MF	10%	25V
C207	1-161-039-00	CERAMIC	0.001MF	10%	25V
C208	1-123-332-00	ELECT	47MF	20%	16V
C209	1-161-039-00	CERAMIC	0.001MF	10%	25V
C501	1-161-021-00	CERAMIC	0.047MF	10%	25V
C502	1-123-330-00	ELECT	22MF	20%	16V
C503	1-102-978-00	CERAMIC	220PF	5%	50V
C504	1-102-978-00	CERAMIC	220PF	5%	50V

CONNECTOR

CN001♣	1-560-470-00	PIN, CONNECTOR	8P
CN002♣	1-560-472-00	PIN, CONNECTOR	12P
CN003♣	1-560-591-00	PIN, CONNECTOR	7P
CN004♣	1-560-466-00	PIN, CONNECTOR	3P
CN201♣	1-560-466-00	PIN, CONNECTOR	3P

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description	Remark
CN202♣	1-560-466-00	PIN, CONNECTOR 3P	
CN203♣	1-560-468-00	PIN, CONNECTOR 5P	
CN204♣	1-560-470-00	PIN, CONNECTOR 8P	
CN501♣	1-560-591-00	PIN, CONNECTOR 7P	
CN502♣	1-560-471-00	PIN, CONNECTOR 10P	
		DIODE	
D001	8-719-911-19	DIODE 1SS119	
D002	8-719-911-19	DIODE 1SS119	
D003	8-719-911-19	DIODE 1SS119	
D004	8-719-911-19	DIODE 1SS119	
D005	8-719-911-19	DIODE 1SS119	
D006	8-719-911-19	DIODE 1SS119	
D007	8-719-911-19	DIODE 1SS119	
D008	8-719-911-19	DIODE 1SS119	
D009	8-719-911-19	DIODE 1SS119	
D010	8-719-911-19	DIODE 1SS119	
D011	8-719-911-19	DIODE 1SS119	
D012	8-719-911-19	DIODE 1SS119	
D013	8-719-911-19	DIODE 1SS119	
D014	8-719-911-19	DIODE 1SS119	
D015	8-719-911-19	DIODE 1SS119	
D019	8-719-911-19	DIODE 1SS119	
D020	8-719-911-19	DIODE 1SS119	
D021	8-719-911-19	DIODE 1SS119	
D201	8-719-102-90	DIODE RD10E-N2	
D202	8-719-182-07	DIODE RD8.2E-B	
D203	8-719-110-07	DIODE RD10E-B	
D204	8-719-911-19	DIODE 1SS119	
D501	8-719-130-07	DIODE RD3.0E-B	
		IC	
IC001	8-759-132-40	IC UPC324C	
IC002	8-759-132-40	IC UPC324C	
IC003	8-759-132-40	IC UPC324C	
IC004	8-759-240-30	IC TC4030BP	
IC005	8-759-979-27	IC CX-7927	
IC006	8-759-240-66	IC TC4066BP	
IC007	8-759-240-13	IC TC4013BP	
IC008	8-759-240-81	IC TC4081BP	
IC009=>	8-759-345-38	IC HD145388P	
IC010	8-759-240-11	IC TC4011BP	
IC011	8-759-240-11	IC TC4011BP	
IC012	8-759-240-81	IC TC4081BP	
IC013	8-759-240-11	IC TC4011BP	
IC201	8-759-300-27	IC HD38757A05	
IC501	8-759-100-80	IC UPD652C040	
		TRANSISTOR	
Q001	8-729-117-54	TRANSISTOR 2SA1175	
Q003	8-729-178-54	TRANSISTOR 2SC2785	
Q004	8-729-178-54	TRANSISTOR 2SC2785	
Q006	8-729-178-54	TRANSISTOR 2SC2785	
Q007	8-729-117-54	TRANSISTOR 2SA1175	

Ref.No.	Part No.	Description	Remark
		TRANSISTOR	
Q008	8-729-178-54	TRANSISTOR 2SC2785	
Q009	8-729-178-54	TRANSISTOR 2SC2785	
Q010	8-729-117-54	TRANSISTOR 2SA1175	
Q016	8-729-178-54	TRANSISTOR 2SC2785	
Q017	8-729-178-54	TRANSISTOR 2SC2785	
Q018	8-729-178-54	TRANSISTOR 2SC2785	
Q021	8-729-178-54	TRANSISTOR 2SC2785	
Q022	8-729-117-54	TRANSISTOR 2SA1175	
Q024	8-729-178-54	TRANSISTOR 2SC2785	
Q025	8-729-178-54	TRANSISTOR 2SC2785	
Q030	8-729-178-54	TRANSISTOR 2SC2785	
Q031	8-729-117-54	TRANSISTOR 2SA1175	
Q032	8-729-178-54	TRANSISTOR 2SC2785	
Q035	8-729-117-54	TRANSISTOR 2SA1175	
Q036	8-729-117-54	TRANSISTOR 2SA1175	
Q201	8-729-117-54	TRANSISTOR 2SA1175	
Q202	8-729-178-54	TRANSISTOR 2SC2785	
Q205	8-729-178-54	TRANSISTOR 2SC2785	
Q206	8-729-178-54	TRANSISTOR 2SC2785	
Q501	8-729-178-54	TRANSISTOR 2SC2785	
Q502	8-729-178-54	TRANSISTOR 2SC2785	
Q503	8-729-178-54	TRANSISTOR 2SC2785	
Q504	8-729-178-54	TRANSISTOR 2SC2785	
Q505	8-729-178-54	TRANSISTOR 2SC2785	
Q506	8-729-178-54	TRANSISTOR 2SC2785	
Q507	8-729-178-54	TRANSISTOR 2SC2785	
		RESISTOR	
R001	1-246-803-00	CARBON 47K	1/8W
R002	1-246-803-00	CARBON 47K	1/8W
R003	1-214-154-00	METAL 8.2K 1%	1/4W
R004	1-214-156-00	METAL 10K 1%	1/4W
R005	1-246-791-00	CARBON 4.7K	1/8W
R006	1-247-053-00	CARBON 1M	1/8W
R007	1-246-791-00	CARBON 4.7K	1/8W
R008	1-247-053-00	CARBON 1M	1/8W
R009	1-246-791-00	CARBON 4.7K	1/8W
R010	1-247-053-00	CARBON 1M	1/8W
R011	1-246-791-00	CARBON 4.7K	1/8W
R012	1-247-053-00	CARBON 1M	1/8W
R013	1-246-792-00	CARBON 5.6K	1/8W
R014	1-246-799-00	CARBON 22K	1/8W
R015	1-246-803-00	CARBON 47K	1/8W
R017	1-246-852-00	CARBON 5.1K	1/8W
R020	1-246-846-00	CARBON 1.6K	1/8W
R021	1-246-851-00	CARBON 4.3K	1/8W
R022	1-246-807-00	CARBON 100K	1/8W
R023	1-246-864-00	CARBON 51K	1/8W
R024	1-246-807-00	CARBON 100K	1/8W
R025	1-246-807-00	CARBON 100K	1/8W
R026	1-246-795-00	CARBON 10K	1/8W

When indicating parts by reference number, please include the board name.

JR-1

Ref.No.	Part No.	Description				Remark
R027	1-246-807-00	CARBON	100K		1/8W	
R028	1-246-807-00	CARBON	100K		1/8W	
R029	1-246-807-00	CARBON	100K		1/8W	
R030	1-246-807-00	CARBON	100K		1/8W	
R032	1-246-781-00	CARBON	680		1/8W	
R034	1-246-795-00	CARBON	10K		1/8W	
R035	1-246-795-00	CARBON	10K		1/8W	
R036	1-246-795-00	CARBON	10K		1/8W	
R039	1-214-156-00	METAL	10K	1%	1/4W	
R040	1-214-171-00	METAL	43K	1%	1/4W	
R041	1-246-803-00	CARBON	47K		1/8W	
R042	1-214-129-00	METAL	750	1%	1/4W	
R043	1-247-053-00	CARBON	1M		1/8W	
R044	1-247-053-00	CARBON	1M		1/8W	
R045	1-246-765-00	CARBON	33		1/8W	
R047	1-246-807-00	CARBON	100K		1/8W	
R048	1-246-844-00	CARBON	1.1K		1/8W	
R049	1-246-846-00	CARBON	1.6K		1/8W	
R050	1-246-846-00	CARBON	1.6K		1/8W	
R051	1-246-791-00	CARBON	4.7K		1/8W	
R052	1-246-791-00	CARBON	4.7K		1/8W	
R053	1-246-801-00	CARBON	33K		1/8W	
R054	1-247-053-00	CARBON	1M		1/8W	
R055	1-247-053-00	CARBON	1M		1/8W	
R058	1-246-792-00	CARBON	5.6K		1/8W	
R060	1-246-803-00	CARBON	47K		1/8W	
R061	1-246-800-00	CARBON	27K		1/8W	
R062	1-246-803-00	CARBON	47K		1/8W	
R063	1-246-783-00	CARBON	1K		1/8W	
R064	1-246-783-00	CARBON	1K		1/8W	
R065	1-246-783-00	CARBON	1K		1/8W	
R066	1-246-804-00	CARBON	56K		1/8W	
R067	1-246-804-00	CARBON	56K		1/8W	
R068	1-246-807-00	CARBON	100K		1/8W	
R069	1-246-803-00	CARBON	47K		1/8W	
R070	1-246-850-00	CARBON	3.6K		1/8W	
R071	1-246-805-00	CARBON	68K		1/8W	
R072	1-246-804-00	CARBON	56K		1/8W	
R073	1-246-804-00	CARBON	56K		1/8W	
R074	1-246-803-00	CARBON	47K		1/8W	
R075	1-246-795-00	CARBON	10K		1/8W	
R076	1-246-795-00	CARBON	10K		1/8W	
R079	1-246-787-00	CARBON	2.2K		1/8W	
R080	1-246-803-00	CARBON	47K		1/8W	
R081	1-246-803-00	CARBON	47K		1/8W	
R082	1-246-803-00	CARBON	47K		1/8W	
R083	1-246-803-00	CARBON	47K		1/8W	
R087	1-214-781-00	METAL	150K	1%	1/4W	
R088	1-246-775-00	CARBON	220		1/8W	
R089	1-246-805-00	CARBON	68K		1/8W	
R090	1-246-803-00	CARBON	47K		1/8W	
R091	1-246-803-00	CARBON	47K		1/8W	
R092	1-247-053-00	CARBON	1M		1/8W	

Ref.No.	Part No.	Description				Remark
R093	1-246-777-00	CARBON	330		1/8W	
R094	1-246-803-00	CARBON	47K		1/8W	
R095	1-246-803-00	CARBON	47K		1/8W	
R098	1-246-803-00	CARBON	47K		1/8W	
R099	1-246-775-00	CARBON	220		1/8W	
R101	1-246-795-00	CARBON	10K		1/8W	
R102	1-246-783-00	CARBON	1K		1/8W	
R103	1-246-795-00	CARBON	10K		1/8W	
R105	1-246-783-00	CARBON	1K		1/8W	
R106	1-246-864-00	CARBON	51K		1/8W	
R107	1-246-858-00	CARBON	16K		1/8W	
R108	1-246-794-00	CARBON	8.2K		1/8W	
R109	1-246-783-00	CARBON	1K		1/8W	
R110	1-246-807-00	CARBON	100K		1/8W	
R111	1-246-799-00	CARBON	22K		1/8W	
R115	1-246-807-00	CARBON	100K		1/8W	
R117	1-246-867-00	CARBON	91K		1/8W	
R118	1-246-801-00	CARBON	33K		1/8W	
R119	1-246-791-00	CARBON	4.7K		1/8W	
R120	1-246-811-00	CARBON	220K		1/8W	
R121	1-246-803-00	CARBON	47K		1/8W	
R122	1-246-803-00	CARBON	47K		1/8W	
R123	1-246-802-00	CARBON	39K		1/8W	
R124	1-246-795-00	CARBON	10K		1/8W	
R125	1-246-857-00	CARBON	13K		1/8W	
R126	1-246-801-00	CARBON	33K		1/8W	
R127	1-246-803-00	CARBON	47K		1/8W	
R128	1-246-783-00	CARBON	1K		1/8W	
R129	1-246-861-00	CARBON	30K		1/8W	
R130	1-246-857-00	CARBON	13K		1/8W	
R131	1-214-156-00	METAL	10K	1%	1/4W	
R132	1-246-803-00	CARBON	47K		1/8W	
R133	1-246-791-00	CARBON	4.7K		1/8W	
R134	1-246-795-00	CARBON	10K		1/8W	
R135	1-246-803-00	CARBON	47K		1/8W	
R136	1-246-803-00	CARBON	47K		1/8W	
R137	1-246-778-00	CARBON	390		1/8W	
R138	1-246-803-00	CARBON	47K		1/8W	
R139	1-246-791-00	CARBON	4.7K		1/8W	
R140	1-246-803-00	CARBON	47K		1/8W	
R141	1-246-803-00	CARBON	47K		1/8W	
R142	1-246-807-00	CARBON	100K		1/8W	
R143	1-246-803-00	CARBON	47K		1/8W	
R144	1-246-803-00	CARBON	47K		1/8W	
R145	1-246-795-00	CARBON	10K		1/8W	
R148	1-246-858-00	CARBON	16K		1/8W	
R153	1-246-807-00	CARBON	100K		1/8W	
R154	1-246-783-00	CARBON	1K		1/8W	
R155	1-246-795-00	CARBON	10K		1/8W	
R156	1-246-869-00	CARBON	130K		1/8W	
R157	1-246-807-00	CARBON	100K		1/8W	
R158	1-246-783-00	CARBON	1K		1/8W	
R160	1-246-802-00	CARBON	39K		1/8W	

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description			Remark
R161	1-246-788-00	CARBON	2.7K	1/8W	
R162	1-246-791-00	CARBON	4.7K	1/8W	
R164	1-246-791-00	CARBON	4.7K	1/8W	
R165	1-246-807-00	CARBON	100K	1/8W	
R166	1-246-807-00	CARBON	100K	1/8W	
R167	1-246-848-00	CARBON	2.4K	1/8W	
R168	1-246-783-00	CARBON	1K	1/8W	
R169	1-246-807-00	CARBON	100K	1/8W	
R170	1-246-807-00	CARBON	100K	1/8W	
R171	1-246-807-00	CARBON	100K	1/8W	
R172	1-246-807-00	CARBON	100K	1/8W	
R173	1-246-795-00	CARBON	10K	1/8W	
R174	1-247-053-00	CARBON	1M	1/8W	
R175	1-246-803-00	CARBON	47K	1/8W	
R176	1-246-791-00	CARBON	4.7K	1/8W	
R202	1-246-799-00	CARBON	22K	1/8W	
R203	1-246-789-00	CARBON	3.3K	1/8W	
R204	1-246-795-00	CARBON	10K	1/8W	
R205	1-246-799-00	CARBON	22K	1/8W	
R207	1-246-771-00	CARBON	100	1/8W	
R214	1-246-795-00	CARBON	10K	1/8W	
R215	1-246-799-00	CARBON	22K	1/8W	
R216	1-246-795-00	CARBON	10K	1/8W	
R217	1-246-795-00	CARBON	10K	1/8W	
R218	1-246-795-00	CARBON	10K	1/8W	
R219	1-247-053-00	CARBON	1M	1/8W	
R220	1-246-803-00	CARBON	47K	1/8W	
R221	1-246-799-00	CARBON	22K	1/8W	
R222	1-246-803-00	CARBON	47K	1/8W	
R223	1-246-803-00	CARBON	47K	1/8W	
R224	1-246-795-00	CARBON	10K	1/8W	
R225	1-246-803-00	CARBON	47K	1/8W	
R226	1-246-799-00	CARBON	22K	1/8W	
R227	1-246-803-00	CARBON	47K	1/8W	
R228	1-246-783-00	CARBON	1K	1/8W	
R229	1-246-799-00	CARBON	22K	1/8W	
R230	1-246-803-00	CARBON	47K	1/8W	
R231	1-246-803-00	CARBON	47K	1/8W	
R232	1-246-803-00	CARBON	47K	1/8W	
R234	1-246-799-00	CARBON	22K	1/8W	
R235	1-246-799-00	CARBON	22K	1/8W	
R236	1-246-799-00	CARBON	22K	1/8W	
R237	1-246-803-00	CARBON	47K	1/8W	
R238	1-246-795-00	CARBON	10K	1/8W	
R239	1-246-803-00	CARBON	47K	1/8W	
R240	1-246-795-00	CARBON	10K	1/8W	
R241	⚠ 1-247-004-11	CARBON	56 5%	1/4W	F
R242	1-246-799-00	CARBON	22K	1/8W	
R243	1-246-799-00	CARBON	22K	1/8W	
R244	1-246-795-00	CARBON	10K	1/8W	
R245	1-246-795-00	CARBON	10K	1/8W	
R246	1-246-793-00	CARBON	6.8K	1/8W	
R501	1-246-832-39	CARBON	110	1/8W	

Ref.No.	Part No.	Description			Remark
R502	1-246-832-39	CARBON	110	1/8W	
R503	1-246-832-39	CARBON	110	1/8W	
R504	1-246-832-39	CARBON	110	1/8W	
R505	1-246-832-39	CARBON	110	1/8W	
R506	1-246-832-39	CARBON	110	1/8W	
R507	1-246-793-00	CARBON	6.8K	1/8W	
R508	1-246-795-00	CARBON	10K	1/8W	
R509	1-246-799-00	CARBON	22K	1/8W	
R510	1-247-053-00	CARBON	1M	1/8W	
R511	1-246-799-00	CARBON	22K	1/8W	
R512	1-246-799-00	CARBON	22K	1/8W	
R513	1-246-799-00	CARBON	22K	1/8W	
R514	1-246-799-00	CARBON	22K	1/8W	
R515	1-246-799-00	CARBON	22K	1/8W	
R516	1-246-799-00	CARBON	22K	1/8W	
R517	1-246-799-00	CARBON	22K	1/8W	
R518	1-246-799-00	CARBON	22K	1/8W	
R519	1-246-799-00	CARBON	22K	1/8W	
R520	1-246-799-00	CARBON	22K	1/8W	
R521	1-246-799-00	CARBON	22K	1/8W	

VARIABLE RESISTOR

RV001	1-224-252-XX	RES, ADJ, METAL GLAZE	10K
RV002	1-224-250-XX	RES, ADJ, METAL GLAZE	2.2K
RV003	1-224-251-XX	RES, ADJ, METAL GLAZE	4.7K
RV004	1-224-253-XX	RES, ADJ, METAL GLAZE	22K
RV006	1-224-256-XX	RES, ADJ, METAL GLAZE	220K
RV009	1-224-256-XX	RES, ADJ, METAL GLAZE	220K
RV010	1-224-254-XX	RES, ADJ, METAL GLAZE	47K
RV011	1-224-253-XX	RES, ADJ, METAL GLAZE	22K
RV012	1-224-256-XX	RES, ADJ, METAL GLAZE	220K
RV013	1-224-256-XX	RES, ADJ, METAL GLAZE	220K
RV016	1-224-250-XX	RES, ADJ, METAL GLAZE	2.2K
RV017	1-224-255-XX	RES, ADJ, METAL GLAZE	100K

CRYSTAL

X201	1-527-532-00	OSCILLATOR, CERAMIC
X501	1-527-532-00	OSCILLATOR, CERAMIC

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♣:A-6717-276-A	FU-5 BOARD, COMPLETE	
	**********	
♣:3-674-313-00	COVER, LED	
♣:3-674-372-00	HOLDER (A), LED	
♣:3-674-390-00	HOLDER (B), LED	
♣:3-675-566-00	HOLDER, LED, 6 GANG	

CAPACITOR

C001	1-123-617-00	ELECT	10MF	20%	16V
C002	1-161-013-00	CERAMIC	0.01MF	10%	25V

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

FU-5 TU-24

Ref.No.	Part No.	Description	Remark
		DIODE	
D001	8-719-812-30	DIODE TLO123	
D002	8-719-812-32	DIODE TLY123	
D003	8-719-812-32	DIODE TLY123	
D004	8-719-812-31	DIODE TLR123	
D005	8-719-812-31	DIODE TLR123	
D006	8-719-812-33	DIODE TLG123A	
D007	8-719-812-33	DIODE TLG123A	
D008	8-719-812-33	DIODE TLG123A	
D009	8-719-812-33	DIODE TLG123A	
D010	8-719-812-33	DIODE TLG123A	
D011	8-719-812-33	DIODE TLG123A	
D012	8-719-812-33	DIODE TLG123A	
D013	8-719-812-31	DIODE TLR123	
D014	8-719-812-33	DIODE TLG123A	
D015	8-719-812-33	DIODE TLG123A	
D016	8-719-812-32	DIODE TLY123	
D017	8-719-907-65	DIODE PG5531KY	
D018	8-719-907-65	DIODE PG5531KY	
D019	8-719-907-65	DIODE PG5531KY	
D020	8-719-907-65	DIODE PG5531KY	
D021	8-719-907-65	DIODE PG5531KY	
D022	8-719-907-65	DIODE PG5531KY	
D023	8-719-812-33	DIODE TLG123A	
D024	8-719-911-19	DIODE 1SS119	
D025	8-719-911-19	DIODE 1SS119	
D026	8-719-911-19	DIODE 1SS119	
D027	8-719-911-19	DIODE 1SS119	
D028	8-719-812-31	DIODE TLR123	
		IC	
IC001	8-759-987-47	IC MB8747	
		TRANSISTOR	
Q001	8-729-178-54	TRANSISTOR 2SC2785	
Q002	8-729-178-54	TRANSISTOR 2SC2785	
Q003	8-729-178-54	TRANSISTOR 2SC2785	
Q004	8-729-178-54	TRANSISTOR 2SC2785	
Q005	8-729-178-54	TRANSISTOR 2SC2785	
Q006	8-729-178-54	TRANSISTOR 2SC2785	
Q007	8-729-178-54	TRANSISTOR 2SC2785	
Q008	8-729-178-54	TRANSISTOR 2SC2785	
Q009	8-729-178-54	TRANSISTOR 2SC2785	
Q010	8-729-178-54	TRANSISTOR 2SC2785	
Q011	8-729-178-54	TRANSISTOR 2SC2785	
		RESISTOR	
R001	1-246-795-00	CARBON 10K	1/8W
R002	1-246-795-00	CARBON 10K	1/8W
R003	1-246-795-00	CARBON 10K	1/8W
R004	1-246-776-00	CARBON 270	1/8W
R005	1-246-776-00	CARBON 270	1/8W
R006	1-246-776-00	CARBON 270	1/8W
R007	1-246-776-00	CARBON 270	1/8W
R008	1-246-773-00	CARBON 150	1/8W
R009	1-246-773-00	CARBON 150	1/8W
R010	1-246-773-00	CARBON 150	1/8W
R011	1-246-773-00	CARBON 150	1/8W
R012	1-246-776-00	CARBON 270	1/8W
		SWITCH	
S001	1-553-997-00	SWITCH, KEY BOARD	
S002	1-553-997-00	SWITCH, KEY BOARD	
S003	1-553-997-00	SWITCH, KEY BOARD	
S004	1-553-997-00	SWITCH, KEY BOARD	
S005	1-553-997-00	SWITCH, KEY BOARD	
S006	1-553-997-00	SWITCH, KEY BOARD	
S007	1-553-997-00	SWITCH, KEY BOARD	
S008	1-553-997-00	SWITCH, KEY BOARD	
S009	1-553-997-00	SWITCH, KEY BOARD	
S010	1-553-997-00	SWITCH, KEY BOARD	
S011	1-553-997-00	SWITCH, KEY BOARD	
S012	1-553-997-00	SWITCH, KEY BOARD	
S013	1-553-997-00	SWITCH, KEY BOARD	
S014	1-553-997-00	SWITCH, KEY BOARD	
S015	1-553-997-00	SWITCH, KEY BOARD	
S016	1-553-997-00	SWITCH, KEY BOARD	
S017	1-553-997-00	SWITCH, KEY BOARD	
S018	1-553-997-00	SWITCH, KEY BOARD	
S019	1-553-997-00	SWITCH, KEY BOARD	
S020	1-553-997-00	SWITCH, KEY BOARD	

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♦:A-6721-125-A	TU-24 BOARD, COMPLETE	
	**********	
♦:3-662-227-00	HOLDER (R-3), LED	
♦:3-662-228-00	HOLDER (R-1), LED	
♦:3-675-557-00	CASE (A) (MAIN), SHIELD, TU	
♦:3-675-558-00	LID, UPPER, SHIELD CASE(A), TU	
♦:3-675-559-00	LID, BOTTOM, SHIELD CASE(A), TU	
♦:4-336-029-00	PLATE, SHIELD	
	BATTERY	
BA301 1-528-097-00	BATTERY, STORAGE, NICKEL CADMIUM	
	CAPACITOR	
C001 1-123-356-00	ELECT 10MF	20% 16V
C002 1-161-032-00	CERAMIC 0.01MF	20% 25V
C003 1-123-356-00	ELECT 10MF	20% 16V
C004 1-130-493-51	MYLAR 0.068MF	5% 50V
C005 1-130-493-51	MYLAR 0.068MF	5% 50V
C006 1-102-963-00	CERAMIC 33PF	5% 50V
C007 1-102-529-00	CERAMIC 100PF	5% 50V
C008 1-102-527-00	CERAMIC 82PF	5% 50V

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description			Remark
C009	1-161-257-00	CERAMIC	6.8PF	10%	50V
C010	1-102-523-00	CERAMIC	56PF	5%	50V
C011	1-102-529-00	CERAMIC	100PF	5%	50V
C012	1-161-328-51	CERAMIC	0.0047MF	30%	50V
C013	1-161-323-00	CERAMIC	0.001MF	10%	50V
C014	1-161-323-00	CERAMIC	0.001MF	10%	50V
C015	1-161-328-51	CERAMIC	0.0047MF	30%	50V
C016	1-101-004-00	CERAMIC	0.01MF		50V
C017	1-161-328-51	CERAMIC	0.0047MF	30%	50V
C018	1-161-328-51	CERAMIC	0.0047MF	30%	50V
C019	1-123-380-00	ELECT	1MF	20%	50V
C020	1-161-328-51	CERAMIC	0.0047MF	30%	50V
C021	1-123-380-00	ELECT	1MF	20%	50V
C022	1-161-328-51	CERAMIC	0.0047MF	30%	50V
C023	1-161-328-51	CERAMIC	0.0047MF	30%	50V
C024	1-161-285-00	CERAMIC	33PF	5%	50V
C025	1-102-529-00	CERAMIC	100PF	5%	50V
C026	1-161-254-00	CERAMIC	3.9PF	10%	50V
C027	1-161-254-00	CERAMIC	3.9PF	10%	50V
C028	1-161-285-00	CERAMIC	33PF	5%	50V
C029	1-102-527-00	CERAMIC	82PF	5%	50V
C030	1-123-356-00	ELECT	10MF	20%	16V
C031	1-161-328-51	CERAMIC	0.0047MF	30%	50V
C032	1-161-330-51	CERAMIC	0.01MF	30%	25V
C033	1-123-379-00	ELECT	0.47MF	20%	50V
C034	1-101-004-00	CERAMIC	0.01MF		50V
C035	1-123-318-00	ELECT	33MF	20%	16V
C036	1-161-316-00	CERAMIC	270PF	10%	50V
C037	1-123-296-00	ELECT	220MF	20%	6.3V
C038	1-123-298-00	ELECT	470MF	20%	6.3V
C039	1-161-036-00	CERAMIC	0.047MF	20%	25V
C040	1-161-035-00	CERAMIC	0.033MF	20%	25V
C041	1-161-028-00	CERAMIC	0.0022MF	20%	25V
C042	1-102-959-00	CERAMIC	22PF	5%	50V
C043	1-102-959-00	CERAMIC	22PF	5%	50V
C044	1-161-032-00	CERAMIC	0.01MF	20%	25V
C045	1-161-032-00	CERAMIC	0.01MF	20%	25V
C046	1-161-328-51	CERAMIC	0.0047MF	30%	50V
C047	1-161-032-00	CERAMIC	0.01MF	20%	25V
C048	1-161-263-00	CERAMIC	22PF	5%	50V
C049	1-101-004-00	CERAMIC	0.01MF		50V
C050	1-123-318-00	ELECT	33MF	20%	16V
C051	1-123-380-00	ELECT	1MF	20%	50V
C101	1-123-380-00	ELECT	1MF	20%	50V
C102	1-123-356-00	ELECT	10MF	20%	16V
C103	1-102-973-00	CERAMIC	100PF	5%	50V
C104	1-123-356-00	ELECT	10MF	20%	50V
C105	1-130-495-00	MYLAR	0.1MF	5%	50V
C106	1-102-114-00	CERAMIC	470PF	10%	50V
C107	1-123-379-00	ELECT	0.47MF	20%	50V
C108	1-130-495-00	MYLAR	0.1MF	5%	50V
C109	1-101-004-00	CERAMIC	0.01MF		50V
C110	1-101-004-00	CERAMIC	0.01MF		50V

Ref.No.	Part No.	Description			Remark
C111	1-102-963-00	CERAMIC	33PF	5%	50V
C112	1-102-963-00	CERAMIC	33PF	5%	50V
C201	1-123-330-00	ELECT	22MF	20%	16V
C202	1-123-356-00	ELECT	10MF	20%	16V
C203	1-127-470-00	ELECT(SOLID)	0.47MF	5%	16V
C204	1-127-470-00	ELECT(SOLID)	0.47MF	5%	16V
C205	1-123-356-00	ELECT	10MF	20%	16V
C206	1-123-330-00	ELECT	22MF	20%	16V
C207	1-127-470-00	ELECT(SOLID)	0.47MF	5%	16V
C208	1-127-470-00	ELECT(SOLID)	0.47MF	5%	16V
C209	1-123-330-00	ELECT	22MF	20%	16V
C210	1-123-356-00	ELECT	10MF	20%	16V
C211	1-123-356-00	ELECT	10MF	20%	16V
C212	1-123-330-00	ELECT	22MF	20%	16V
C213	1-123-356-00	ELECT	10MF	20%	16V
C215	1-123-356-00	ELECT	10MF	20%	16V
C301	1-123-381-00	ELECT	2.2MF	20%	50V
C302	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C303	1-130-495-00	MYLAR	0.1MF	5%	50V
C304	1-123-318-00	ELECT	33MF	20%	16V
C305	1-123-318-00	ELECT	33MF	20%	16V
C306	1-123-356-00	ELECT	10MF	20%	50V
C307	1-101-004-00	CERAMIC	0.01MF		50V

CERAMIC DISCRIMINATOR

CD001	1-404-380-00	DISCRIMINATOR, CERAMIC 5.5MHZ

FILTER

CF001	1-527-263-00	CERAMIC FILTER (5.5MHZ)
CF101	1-527-932-00	OSCILLATOR, CERAMIC

CONNECTOR

CN001♣	1-560-467-00	PIN, CONNECTOR 4P
CN002♣	1-560-467-00	PIN, CONNECTOR 4P
CN101♣	1-560-466-00	PIN, CONNECTOR 3P
CN102♣	1-560-469-00	PIN, CONNECTOR 6P
CN103♣	1-560-471-00	PIN, CONNECTOR 10P
CN104♣	1-560-591-00	PIN, CONNECTOR 7P
CN105♣	1-560-466-00	PIN, CONNECTOR 3P
CN106♣	1-560-466-00	PIN, CONNECTOR 3P
CN201♣	1-560-456-00	PIN, CONNECTOR 2P
CN301♣	1-560-468-00	PIN, CONNECTOR 5P

TRIMMER

CT001	1-409-358-00	TRAP, CERAMIC
CT002	1-404-134-00	TRAP, CERAMIC (5.5MHZ)

DIODE

D001	8-719-911-19	DIODE 1SS119
D002	8-719-911-19	DIODE 1SS119
D101	8-719-911-19	DIODE 1SS119
D102	8-719-911-19	DIODE 1SS119
D106	8-719-812-31	DIODE TLR123

When indicating parts by reference number, please include the board name.

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Ref.No.	Part No.	Description	Remark
D107	8-719-812-31	DIODE TLR123	
D108	8-719-812-31	DIODE TLR123	
D109	8-719-812-32	DIODE TLY123	
D110	8-719-812-33	DIODE TLG123A	
D201	8-719-911-19	DIODE 1SS119	
D202	8-719-911-19	DIODE 1SS119	
D203	8-719-911-19	DIODE 1SS119	
D204	8-719-113-07	DIODE RD13E-B	
D301	8-719-151-07	DIODE RD5.1E-B	
D302	8-719-911-19	DIODE 1SS119	
D303	8-719-156-25	DIODE RD5.6E-B	
D304	8-719-124-25	DIODE RD24E-B2Z	
		IC	
IC001	8-759-200-64	IC TA7660P	
IC002	8-759-193-91	IC UPC1391H	
IC101	8-759-600-17	IC M50118P	
IC102	8-759-600-16	IC M5G1400P	
IC103	8-759-157-40	IC UPC574J	
IC104	8-759-600-15	IC M54570L	
IC201	8-759-145-58	IC UPC4558C	
IC202	8-759-145-58	IC UPC4558C	
		COIL	
L001	1-407-681-00	MICRO INDUCTOR 1UH	
L002	1-407-690-00	MICRO INDUCTOR 5.6UH	
L003	1-408-600-41	MICRO INDUCTOR 5.6UH	
L004	1-408-600-41	MICRO INDUCTOR 5.6UH	
L005	1-408-603-41	MICRO INDUCTOR 10UH	
L006	1-407-687-00	MICRO INDUCTOR 3.3UH	
L007	1-408-606-41	MICRO INDUCTOR 18UH	
L008	1-408-607-41	MICRO INDUCTOR 22UH	
L101	1-407-510-00	MICRO INDUCTOR 33MMH	
L102	1-408-603-41	MICRO INDUCTOR 10UH	
L103	1-408-603-41	MICRO INDUCTOR 10UH	
L301	1-408-614-41	MICRO INDUCTOR 82UH	
Q001	8-729-178-54	TRANSISTOR 2SC2785	
		TRANSISTOR	
Q002	8-765-300-00	TRANSISTOR 2SC2009	
Q003	8-729-178-54	TRANSISTOR 2SC2785	
Q004	=>8-729-117-54	TRANSISTOR 2SA1175	
Q005	=>8-729-117-54	TRANSISTOR 2SA1175	
Q006	=>8-729-117-54	TRANSISTOR 2SA1175	
Q007	8-729-178-54	TRANSISTOR 2SC2785	
Q008	=>8-729-117-54	TRANSISTOR 2SA1175	
Q009	8-729-178-54	TRANSISTOR 2SC2785	
Q101	8-729-603-50	TRANSISTOR 2SC403SP	
Q102	8-729-178-54	TRANSISTOR 2SC2785	
Q103	8-729-178-54	TRANSISTOR 2SC2785	
Q104	8-729-178-54	TRANSISTOR 2SC2785	
Q105	=>8-729-117-54	TRANSISTOR 2SA1175	
Q106	8-729-178-54	TRANSISTOR 2SC2785	

Ref.No.	Part No.	Description	Remark
Q107	8-729-178-54	TRANSISTOR 2SC2785	
Q108	8-729-178-54	TRANSISTOR 2SC2785	
Q109	=>8-729-117-54	TRANSISTOR 2SA1175	
Q110	=>8-729-117-54	TRANSISTOR 2SA1175	
Q111	=>8-729-117-54	TRANSISTOR 2SA1175	
Q201	8-729-178-54	TRANSISTOR 2SC2785	
Q301	8-729-178-54	TRANSISTOR 2SC2785	
Q302	=>8-729-177-32	TRANSISTOR 2SD773	
Q303	8-729-178-54	TRANSISTOR 2SC2785	
Q304	8-729-178-54	TRANSISTOR 2SC2785	
Q305	8-729-988-12	TRANSISTOR 2SA881	
		RESISTOR	
R001	1-246-481-00	CARBON 2.2K 5% 1/4W	
R002	1-246-533-00	CARBON 330K 5% 1/4W	
R003	1-246-505-00	CARBON 22K 5% 1/4W	
R004	1-246-489-00	CARBON 4.7K 5% 1/4W	
R005	1-246-487-00	CARBON 3.9K 5% 1/4W	
R006	1-246-457-00	CARBON 220 5% 1/4W	
R007	1-246-457-00	CARBON 220 5% 1/4W	
R008	1-246-465-00	CARBON 470 5% 1/4W	
R009	1-246-479-00	CARBON 1.8K 5% 1/4W	
R010	1-246-521-00	CARBON 100K 5% 1/4W	
R011	1-246-483-00	CARBON 2.7K 5% 1/4W	
R012	1-246-477-00	CARBON 1.5K 5% 1/4W	
R013	1-246-456-00	CARBON 200 5% 1/4W	
R014	1-246-521-00	CARBON 100K 5% 1/4W	
R015	1-246-511-00	CARBON 39K 5% 1/4W	
R016	1-246-473-00	CARBON 1K 5% 1/4W	
R017	1-246-473-00	CARBON 1K 5% 1/4W	
R018	1-246-455-00	CARBON 180 5% 1/4W	
R019	1-246-449-00	CARBON 100 5% 1/4W	
R020	1-246-463-00	CARBON 390 5% 1/4W	
R021	1-246-465-00	CARBON 470 5% 1/4W	
R022	1-246-465-00	CARBON 470 5% 1/4W	
R023	1-246-465-00	CARBON 470 5% 1/4W	
R024	1-246-473-00	CARBON 1K 5% 1/4W	
R025	1-246-457-00	CARBON 220 5% 1/4W	
R026	1-246-467-00	CARBON 560 5% 1/4W	
R027	1-246-445-00	CARBON 68 5% 1/4W	
R028	1-246-457-00	CARBON 220 5% 1/4W	
R029	1-246-473-00	CARBON 1K 5% 1/4W	
R030	1-246-513-00	CARBON 47K 5% 1/4W	
R031	1-246-529-00	CARBON 220K 5% 1/4W	
R032	1-246-473-00	CARBON 1K 5% 1/4W	
R033	1-246-473-00	CARBON 1K 5% 1/4W	
R034	1-246-473-00	CARBON 1K 5% 1/4W	
R035	1-246-513-00	CARBON 47K 5% 1/4W	
R036	1-246-489-00	CARBON 4.7K 5% 1/4W	
R037	1-246-459-00	CARBON 270 5% 1/4W	
R038	1-246-463-00	CARBON 390 5% 1/4W	
R039	1-246-473-00	CARBON 1K 5% 1/4W	
R040	1-246-459-00	CARBON 270 5% 1/4W	

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description				Remark
R041	1-246-483-00	CARBON	2.7K	5%	1/4W	
R101	1-246-509-00	CARBON	33K	5%	1/4W	
R102	1-246-497-00	CARBON	10K	5%	1/4W	
R103	1-246-505-00	CARBON	22K	5%	1/4W	
R104	1-246-505-00	CARBON	22K	5%	1/4W	
R105	1-246-467-00	CARBON	560	5%	1/4W	
R106	1-246-505-00	CARBON	22K	5%	1/4W	
R107	1-246-505-00	CARBON	22K	5%	1/4W	
R108	1-246-481-00	CARBON	2.2K	5%	1/4W	
R109	1-246-481-00	CARBON	2.2K	5%	1/4W	
R110	1-246-477-00	CARBON	1.5K	5%	1/4W	
R111	1-246-475-00	CARBON	1.2K	5%	1/4W	
R112	1-246-505-00	CARBON	22K	5%	1/4W	
R113	1-246-505-00	CARBON	22K	5%	1/4W	
R114	1-246-521-00	CARBON	100K	5%	1/4W	
R115	1-246-477-00	CARBON	1.5K	5%	1/4W	
R116	1-246-489-00	CARBON	4.7K	5%	1/4W	
R117	1-246-509-00	CARBON	33K	5%	1/4W	
R118	1-246-511-00	CARBON	39K	5%	1/4W	
R119	1-246-505-00	CARBON	22K	5%	1/4W	
R120	1-246-461-00	CARBON	330	5%	1/4W	
R121	1-246-509-00	CARBON	33K	5%	1/4W	
R122	1-246-529-00	CARBON	220K	5%	1/4W	
R123	1-246-505-00	CARBON	22K	5%	1/4W	
R124	1-246-521-00	CARBON	100K	5%	1/4W	
R125	1-246-513-00	CARBON	47K	5%	1/4W	
R126	1-246-523-00	CARBON	120K	5%	1/4W	
R127	1-246-525-00	CARBON	150K	5%	1/4W	
R128	1-246-545-00	CARBON	1M	5%	1/4W	
R129	1-246-537-00	CARBON	470K	5%	1/4W	
R130	1-246-521-00	CARBON	100K	5%	1/4W	
R131	1-246-505-00	CARBON	22K	5%	1/4W	
R132	1-246-509-00	CARBON	33K	5%	1/4W	
R133	1-246-509-00	CARBON	33K	5%	1/4W	
R134	1-246-497-00	CARBON	10K	5%	1/4W	
R135	1-246-497-00	CARBON	10K	5%	1/4W	
R136	1-246-505-00	CARBON	22K	5%	1/4W	
R137	1-246-481-00	CARBON	2.2K	5%	1/4W	
R142	1-246-791-00	CARBON	4.7K		1/8W	
R143	1-246-791-00	CARBON	4.7K		1/8W	
R201	1-214-741-00	METAL	3.3K	1%	1/4W	
R202	1-246-521-00	CARBON	100K	5%	1/4W	
R203	1-246-521-00	CARBON	100K	5%	1/4W	
R204	1-214-958-00	METAL	560K	1%	1/4W	
R205	1-214-733-00	METAL	1.5K	1%	1/4W	
R206	1-214-741-00	METAL	3.3K	1%	1/4W	
R207	1-214-958-00	METAL	560K	1%	1/4W	
R208	1-214-736-00	METAL	2K	1%	1/4W	
R209	1-246-481-00	CARBON	2.2K	5%	1/4W	
R210	1-246-505-00	CARBON	22K	5%	1/4W	
R211	1-246-529-00	CARBON	220K	5%	1/4W	
R212	1-246-481-00	CARBON	2.2K	5%	1/4W	
R213	1-246-521-00	CARBON	100K	5%	1/4W	
R214	1-246-481-00	CARBON	2.2K	5%	1/4W	
R215	1-246-509-00	CARBON	33K	5%	1/4W	
R216	1-246-528-00	CARBON	200K	5%	1/4W	
R217	1-246-497-00	CARBON	10K	5%	1/4W	
R218	1-246-509-00	CARBON	33K	5%	1/4W	
R220	1-246-481-00	CARBON	2.2K	5%	1/4W	
R301	1-246-456-00	CARBON	200	5%	1/4W	
R302	1-246-480-00	CARBON	2K	5%	1/4W	
R303	1-246-473-00	CARBON	1K	5%	1/4W	
R304	1-246-453-00	CARBON	150	5%	1/4W	
R305	1-246-433-00	CARBON	22	5%	1/4W	
R306	1-246-505-00	CARBON	22K	5%	1/4W	
R307	1-246-521-00	CARBON	100K	5%	1/4W	
R308	1-246-489-00	CARBON	4.7K	5%	1/4W	
R309	1-246-473-00	CARBON	1K	5%	1/4W	
R310	1-246-463-00	CARBON	390	5%	1/4W	
R311	1-246-459-00	CARBON	270	5%	1/4W	
R312	1-246-456-00	CARBON	200	5%	1/4W	
R313 ⚠	1-246-981-00	CARBON	4.7	5%	1/8W	F
R314	1-246-465-00	CARBON	470	5%	1/4W	

VARIABLE RESISTOR

RV001	1-224-251-XX	RES, ADJ, SOLID 4.7K
RV201	1-224-249-XX	RES, ADJ, METAL GLAZE 1K
RV202	1-224-255-XX	RES, ADJ, METAL GLAZE 100K

SWITCH

S101	1-552-174-00	SWITCH, PUSH
S102	1-552-174-00	SWITCH, PUSH
S103	1-552-174-00	SWITCH, PUSH
S104	1-552-174-00	SWITCH, PUSH
S105	1-552-174-00	SWITCH, PUSH
S106	1-552-174-00	SWITCH, PUSH
S107	1-552-174-00	SWITCH, PUSH
S108	1-516-226-00	SLIDE SWITCH

FILTER

SF001	1-404-323-00	SAWF (38.9MHZ)

TRANSFORMER

T001	1-404-068-00	COIL, VIF
T002	1-404-068-00	COIL, VIF
T003	1-404-207-00	COIL, VIF
T004	1-404-203-00	COIL, VIF
T005	1-404-203-00	COIL, VIF
T301	1-446-571-00	TRANSFORMER, CONVERTOR

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

SW-11 LM-9 RL-4 CI-2 CI-3 LM-8 RL-6 HM-1

Ref.No.	Part No.	Description	Remark
♦:	1-607-770-00	SW-11 BOARD	
		**********	
		DIODE	
D401	8-719-911-19	DIODE 1SS119	
D402	8-719-911-19	DIODE 1SS119	
		VARIABLE RESISTOR	
RV401	1-228-244-00	RES, VAR, SOLID 100K	
RV402	1-228-359-00	RES, VAR, SOLID 5K	
		SWITCH	
S401	1-553-997-00	SWITCH, KEY BOARD	
S402	1-553-997-00	SWITCH, KEY BOARD	
S403	1-553-754-00	SWITCH, SLIDE	
S404	1-553-716-00	SWITCH, SLIDE	
S405	1-553-754-00	SWITCH, SLIDE	
**********			
♦:	1-605-109-00	LM-9 BOARD	
		**********	
		CAPACITOR	
C001	1-161-057-00	CERAMIC 0.033MF 10% 50V	
C002	1-161-057-00	CERAMIC 0.033MF 10% 50V	
		DIODE	
D001	8-719-911-06	DIODE 1SS106	
D002	8-719-911-06	DIODE 1SS106	
D003	8-719-911-06	DIODE 1SS106	
		COIL	
L001	1-407-696-00	MICRO INDUCTOR 18UH	
L002	1-407-696-00	MICRO INDUCTOR 18UH	
		SWITCH	
S001	1-552-664-00	SWITCH, MICRO	
**********			
♦:	1-605-110-00	RL-4 BOARD	
		**********	
**********			
♦:	1-605-111-13	CI-2 BOARD	
		**********	
	1-553-719-00	SWITCH, MICRO	
♦:	3-670-039-00	HOLDER (R), CSW	

Ref.No.	Part No.	Description	Remark
♦:	1-605-112-13	CI-3 BOARD	
		**********	
	1-553-719-00	SWITCH, MICRO	
♦:	3-670-038-00	HOLDER (L), CSW	
**********			
♦:	1-605-071-21	LM-8 BOARD	
		**********	
		CAPACITOR	
C101	1-161-057-00	CERAMIC 0.033MF 10% 50V	
C102	1-161-057-00	CERAMIC 0.033MF 10% 50V	
		COIL	
L101	1-408-120-00	MICRO INDUCTOR 18UH	
L102	1-408-120-00	MICRO INDUCTOR 18UH	
		RESISTOR	
R101	⚠ 1-206-640-00	METAL 100 5% 2W F	
**********			
♦:	1-607-772-00	RL-6 BOARD	
		**********	
		CONNECTOR	
CN501	♦ 1-560-471-00	PIN, CONNECTOR 10P	
CN502	♦: 1-560-591-00	PIN, CONNECTOR 7P	
CN503	♦ 1-560-459-00	PIN, CONNECTOR 3P	
CN504	♦: 1-560-459-00	PIN, CONNECTOR 3P	
CN505	♦: 1-560-455-41	PIN, CONNECTOR 2P	
CN506	♦: 1-560-455-00	PIN, CONNECTOR 2P	
CN507	♦: 1-560-455-00	PIN, CONNECTOR 2P	
CN508	♦: 1-560-455-00	PIN, CONNECTOR 2P	
CN509	♦ 1-560-466-00	PIN, CONNECTOR 3P	
CN510	♦: 1-560-459-00	PIN, CONNECTOR 3P	
CN511	♦: 1-560-455-00	PIN, CONNECTOR 2P	
CN512	♦: 1-560-460-00	PIN, CONNECTOR 4P	
		DIODE	
D501	8-719-911-19	DIODE 1SS119	
D502	8-719-911-19	DIODE 1SS119	
D503	8-719-911-19	DIODE 1SS119	
		RESISTOR	
R501	1-246-783-00	CARBON 1K 1/8W	
**********			
♦:	1-607-774-00	HM-1 BOARD	
		**********	
	3-670-164-00	SPACER, JACK	

When indicating parts by reference number, please include the board name.

NOTE:

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Ref.No.	Part No.	Description			Remark
♣	3-674-399-00	INSULATOR, HM			
		JACK			
J501	1-507-285-00	JACK			
J502	1-507-285-00	JACK			
**********					
♣	1-607-767-00	TM-30 BOARD **********			
♣	3-675-517-00	HOLDER, INDICATION TUBE			
		CAPACITOR			
C101	1-123-617-00	ELECT	10MF	20% 16V	
C102	1-123-620-00	ELECT	10MF	20% 35V	
		DIODE			
D101	8-719-151-07	DIODE RD5.1E-B			
D102	8-719-182-07	DIODE RD8.2E-B			
		FILTER			
FL101	1-519-269-00	INDICATOR TUBE, FLUORESCENT			
		IC			
IC101	8-759-909-15	IC MSL915RS			
IC102	8-759-909-15	IC MSL915RS			
IC103	8-759-909-15	IC MSL915RS			
		RESISTOR			
R101	1-246-801-00	CARBON	33K	1/8W	
R102	1-246-807-00	CARBON	100K	1/8W	
R103	1-246-807-00	CARBON	100K	1/8W	
R104	1-246-807-00	CARBON	100K	1/8W	
R105	1-246-807-00	CARBON	100K	1/8W	
R106	1-246-807-00	CARBON	100K	1/8W	
R107	1-246-807-00	CARBON	100K	1/8W	
R108	1-246-807-00	CARBON	100K	1/8W	
R109	1-246-807-00	CARBON	100K	1/8W	
R110	1-246-807-00	CARBON	100K	1/8W	
R111	1-246-807-00	CARBON	100K	1/8W	
R112	1-246-807-00	CARBON	100K	1/8W	
R113	1-246-807-00	CARBON	100K	1/8W	
R114	1-246-807-00	CARBON	100K	1/8W	
R115	1-246-807-00	CARBON	100K	1/8W	
**********					
♣	1-607-768-00	TM-31 BOARD **********			
♣	3-674-372-00	HOLDER (A), LED			

Ref.No.	Part No.	Description			Remark
		CAPACITOR			
C201	1-102-505-00	CERAMIC	6PF	0.5PF 50V	
C202	1-102-522-00	CERAMIC	51PF	5% 50V	
C203	1-123-617-00	ELECT	10MF	20% 16V	
C204	1-123-298-00	ELECT	470MF	20% 6.3V	
C205	1-161-036-00	CERAMIC	0.047MF	20% 25V	
		CONNECTOR			
CN201♣	1-560-462-00	PIN, CONNECTOR 6P			
CN202♣	1-560-469-00	PIN, CONNECTOR 6P			
CN203♣	1-560-468-00	PIN, CONNECTOR 5P			
CN204♣	1-560-591-00	PIN, CONNECTOR 7P			
CN205♣	1-560-456-00	PIN, CONNECTOR 2P			
CN206♣	1-560-466-00	PIN, CONNECTOR 3P			
CN207♣	1-560-469-00	PIN, CONNECTOR 6P			
CN208♣	1-560-468-00	PIN, CONNECTOR 5P			
CN209♣	1-560-459-00	PIN, CONNECTOR 3P			
		DIODE			
D201	8-719-911-19	DIODE 1SS119			
D214	8-719-911-19	DIODE 1SS119			
D215	8-719-911-19	DIODE 1SS119			
D216	8-719-911-19	DIODE 1SS119			
D217	8-719-911-19	DIODE 1SS119			
D218	8-719-812-41	DIODE TLR124			
		IC			
IC201	8-759-903-25	IC MB88401-123M			
IC202	8-759-240-71	IC TC4071BP			
IC203	8-759-240-71	IC TC4071BP			
IC204	8-759-240-71	IC TC4071BP			
IC205	8-759-600-18	IC M54847P			
		COIL			
L201	1-407-705-00	MICRO INDUCTOR 100UH			
		TRANSISTOR			
Q201	8-729-178-54	TRANSISTOR 2SC2785			
Q202	8-729-178-54	TRANSISTOR 2SC2785			
Q203	8-729-117-54	TRANSISTOR 2SA1175			
Q204	8-729-178-54	TRANSISTOR 2SC2785			
Q205	8-729-117-54	TRANSISTOR 2SA1175			
Q206	8-729-178-54	TRANSISTOR 2SC2785			
Q207	8-729-178-54	TRANSISTOR 2SC2785			
Q208	8-729-178-54	TRANSISTOR 2SC2785			
Q209	8-729-178-54	TRANSISTOR 2SC2785			
Q210	8-729-117-54	TRANSISTOR 2SA1175			
Q211	8-729-178-54	TRANSISTOR 2SC2785			
Q212	8-729-178-54	TRANSISTOR 2SC2785			
Q213	8-729-117-54	TRANSISTOR 2SA1175			

When indicating parts by reference number, please include the board name.

TM-31 TM-32 CH-10 MT-1

Ref.No.	Part No.	Description			Remark
		RESISTOR			
R204	1-246-803-00	CARBON	47K	1/8W	
R206	1-246-803-00	CARBON	47K	1/8W	
R207	1-246-799-00	CARBON	22K	1/8W	
R208	1-246-799-00	CARBON	22K	1/8W	
R209	1-246-799-00	CARBON	22K	1/8W	
R212	1-246-799-00	CARBON	22K	1/8W	
R213	1-246-765-00	CARBON	33	1/8W	
R221	1-246-783-00	CARBON	1K	1/8W	
R227	1-246-799-00	CARBON	22K	1/8W	
R228	1-246-799-00	CARBON	22K	1/8W	
R229	1-246-799-00	CARBON	22K	1/8W	
R230	1-246-799-00	CARBON	22K	1/8W	
R231	1-246-799-00	CARBON	22K	1/8W	
R232	1-246-799-00	CARBON	22K	1/8W	
R233	1-246-799-00	CARBON	22K	1/8W	
R239	1-246-807-00	CARBON	100K	1/8W	
		TRIMMER			
TC201	1-141-022-11	CAP, TRIMMER, CERAMIC			
		CRYSTAL			
X201	1-527-868-00	VIBRATOR, CRYSTAL			
**********					
♦:1-607-769-00		TM-32 BOARD **********			
		DIODE			
D301	8-719-911-19	DIODE 1SS119			
D302	8-719-911-19	DIODE 1SS119			
D303	8-719-911-19	DIODE 1SS119			
D304	8-719-911-19	DIODE 1SS119			
D305	8-719-911-19	DIODE 1SS119			
D306	8-719-911-19	DIODE 1SS119			
D307	8-719-911-19	DIODE 1SS119			
		SWITCH			
S301	1-553-997-00	SWITCH, KEY BOARD			
S302	1-553-997-00	SWITCH, KEY BOARD			
S303	1-553-997-00	SWITCH, KEY BOARD			
S304	1-553-997-00	SWITCH, KEY BOARD			
S305	1-553-997-00	SWITCH, KEY BOARD			
S306	1-553-997-00	SWITCH, KEY BOARD			
S307	1-553-997-00	SWITCH, KEY BOARD			
S308	1-553-997-00	SWITCH, KEY BOARD			
S309	1-553-997-00	SWITCH, KEY BOARD			
S310	1-553-716-00	SWITCH, SLIDE			

Ref.No.	Part No.	Description	Remark
♦:1-607-766-00		CH-10 BOARD **********	
♦:3-674-381-00		HOLDER, LED, BS	
		DIODE	
D501	8-719-812-31	DIODE TLR123	
		SWITCH	
S501	1-553-997-00	SWITCH, KEY BOARD	
S502	1-553-997-00	SWITCH, KEY BOARD	
S503	1-553-997-00	SWITCH, KEY BOARD	
S504	1-553-997-00	SWITCH, KEY BOARD	
S505	1-553-997-00	SWITCH, KEY BOARD	
S506	1-553-997-00	SWITCH, KEY BOARD	
S507	1-553-997-00	SWITCH, KEY BOARD	
S508	1-553-997-00	SWITCH, KEY BOARD	
S509	1-553-997-00	SWITCH, KEY BOARD	
S510	1-553-997-00	SWITCH, KEY BOARD	
S511	1-553-997-00	SWITCH, KEY BOARD	
S512	1-553-997-00	SWITCH, KEY BOARD	
**********			
♦:1-607-775-00		MT-1 BOARD **********	
♦:1-555-716-61		CABLE, PIN	
		TUNER	
TU401	1-463-350-00	TUNER (BT-881)	
**********			
		MISCELLANEOUS **********	
	1-235-054-00	COIL, SENSOR, S	
	1-235-055-00	COIL SENSOR, T	
	1-454-281-31	SOLENOID, PLUNGER (BRAKE)	
⚠	1-454-282-11	SOLENOID, PLUNGER (PINCH ROLLER)	
	1-464-184-00	MODULATOR, RF (RBM-110-E)	
	1-552-664-00	SWITCH, MICRO S1 (CASSETE UP)	
	1-553-539-00	SWITCH, MICRO S2 (THREADING END)	
	1-553-718-00	SWITCH, MICRO S4 (UNTHREADING END)	
	8-825-508-10	HEAD, FF	
	8-838-021-21	MOTOR, DC (BHF-1800C)	
	8-838-027-11	MOTOR, DC (BHF-1901B)	

When indicating parts by reference number, please include the board name.

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Ref.No.	Part No.	Description	Remark

ACCESSORIES AND PACKING MATERIALS
****

Part No.	Description	Remark
1-551-513-00	CABLE, COAXAL ASSY	
3-660-986-00	SHEET, PROTECTION	
3-671-873-00	CASE, ACCESSORY	
3-675-575-00	CUSHION (UPPER FRONT)	
3-675-576-00	CUSHION (UPPER REAR)	
3-675-577-00	CUSHION (LOWER FRONT)	
3-675-578-00	CUSHION (LOWER REAR)	
3-675-579-00	BAG, PROTECTION	
3-675-580-00	INDIVIDUAL CARTON	
3-675-581-00	LID, CASE, ACCESSORY	
3-701-007-00	BAND, BINDING	
3-773-025-11	MANUAL, INSTRUCTION	
3-773-025-51	MANUAL, INSTRUCTION	

****

POWER BLOCK (SR11E)
****
INCLUDING CD-09(AC-DC CONV)

♦:1-413-105-11 POWER BLOCK (SR11E)

CAPACITOR

C601	⚠.1-130-711-00	METALLIZED POLYESTER	0.22MF	250V
C602	⚠.1-130-711-00	METALLIZED POLYESTER	0.22MF	250V
C603	⚠.1-161-742-00	CERAMIC	0.0022MF	400V
C604	⚠.1-161-742-00	CERAMIC	0.0022MF	400V
C605	⚠.1-161-742-00	CERAMIC	0.0022MF	400V
C606	⚠.1-161-743-00	CERAMIC	0.0047MF	400V
C607	⚠.1-161-743-00	CERAMIC	0.0047	400V
C608	⚠.1-161-742-00	CERAMIC	0.0022MF	400V
C611	⚠.1-123-311-00	ELECT	220MF	400V
C612	⚠.1-124-023-00	ELECT	4.7MF	350V
C613	⚠.1-124-023-00	ELECT	4.7MF	350V
C614	⚠.1-124-162-00	ELECT	47MF	10V
C615	⚠.1-124-162-00	ELECT	47MF	10V
C631	⚠.1-161-910-00	CERAMIC	390PF	500V
C632	⚠.1-161-910-00	CERAMIC	390PF	500V
C633	⚠.1-108-409-00	POLYESTER	0.001MF	200V
C634	⚠.1-123-385-00	ELECT	22MF	100V
C635	⚠.1-123-324-00	ELECT	1000MF	16V
C636	⚠.1-123-324-00	ELECT	1000MF	16V
C638	⚠.1-161-915-00	CERAMIC	0.001MF	500V
C639	⚠.1-130-516-00	POLYESTER	0.01MF	50V
C640	⚠.1-130-520-00	POLYESTER	0.022MF	50V
C642	⚠.1-108-389-00	POLYESTER	0.1MF	100V
C651	⚠.1-123-324-00	ELECT	1000MF	16V
C652	⚠.1-123-324-00	ELECT	1000MF	16V
C653	⚠.1-125-310-00	ELECT	470MF	16V
C654	⚠.1-123-324-00	ELECT	1000MF	16V
C655	⚠.1-123-319-00	ELECT	47MF	16V
C656	⚠.1-123-319-00	ELECT	47MF	16V
C657	⚠.1-125-310-00	ELECT	470MF	16V
C658	⚠.1-123-320-00	ELECT	100MF	16V
C659	⚠.1-125-310-00	ELECT	470MF	16V
C660	⚠.1-123-357-00	ELECT	22MF	50V
C661	⚠.1-123-357-00	ELECT	22MF	50V
C662	⚠.1-123-320-00	ELECT	100MF	16V
C681	⚠.1-130-027-00	POLYPROPYELENE	0.0056MF	50V
C682	⚠.1-130-021-00	POLYPROPYELENE	0.0018MF	50V
C683	⚠.1-130-026-00	POLYPROPYELENE	0.0047MF	50V
C684	⚠.1-123-318-00	ELECT	33MF	16V
C685	⚠.1-123-320-00	ELECT	100MF	16V

DIODE

D601	⚠.8-719-503-06	DIODE	S3WB60Z
D631	⚠.8-719-902-43	DIODE	ESAD33-02CS
D632	⚠.8-719-300-27	DIODE	CTV-22S
D634	⚠.8-719-900-95	DIODE	V09G
D635	⚠.8-719-100-14	DIODE	RD3.0E-B1
D636	⚠.8-719-100-14	DIODE	RD3.0E-B1
D637	⚠.8-719-100-44	DIODE	RD7.5E-B2
D638	⚠.8-719-100-57	DIODE	RD10E-B2
D639	⚠.8-719-815-85	DIODE	1S1585
D640	⚠.8-719-815-55	DIODE	1S1555
D651	⚠.8-719-815-85	DIODE	1S1585
D652	⚠.8-719-100-23	DIODE	RD4.3E-B2
D653	⚠.8-719-815-55	DIODE	1S1555
D654	⚠.8-719-815-55	DIODE	1S1555
D655	⚠.8-719-911-55	DIODE	U05G
D681	⚠.8-719-815-55	DIODE	1S1555
D682	⚠.8-719-100-35	DIODE	RD5.6E-B2
D683	⚠.8-719-100-68	DIODE	RD13E-B2
D684	⚠.8-719-100-87	DIODE	RD22E-B3
D685	⚠.8-719-200-02	DIODE	10E2

FUSE

F601	⚠.1-523-237-00	FUSE, TIME-LAG	3.15A 200V

IC

IC651	⚠.8-759-171-08	IC	UPC7808H
IC681	⚠.8-759-937-59	IC	MB3759

COIL

L631	⚠.1-421-545-00		
L632	⚠.1-421-546-00		
L633	⚠.1-421-547-00	10UH	
L634	⚠.1-421-329-00	10UH	
L635	⚠.1-421-421-00	100UH	
L651	⚠.1-421-329-00	10UH	
L652	⚠.1-408-454-00	100UH	
L653	⚠.1-408-421-00	100UH	

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

SR-11E

25.55

Ref.No.	Part No.	Description			Remark
		PRINTED CIRCUIT BOARD			
		**********			
♦:	1-593-678-00	C BOARD			
		*******			
♦:	1-593-679-00	D BOARD			
		*******			
♦:	1-593-680-00	F BOARD			
		*******			
		TRANSISTOR			
Q611	⚠.8-729-133-55	TRANSISTOR	2SC2335-L2		
Q612	⚠.8-729-133-55	TRANSISTOR	2SC2335-L2		
Q613	⚠.8-729-102-03	TRANSISTOR	2SD1020		
Q614	⚠.8-729-102-03	TRANSISTOR	2SD1020		
Q631	⚠.8-729-103-43	TRANSISTOR	2SB734		
Q632	⚠.8-729-306-72	TRANSISTOR	2SD677A		
Q651	⚠.8-729-117-54	TRANSISTOR	2SA1175		
Q652	⚠.8-729-178-54	TRANSISTOR	2SC2785		
Q681	⚠.8-729-117-54	TRANSISTOR	2SA1175		
Q682	⚠.8-729-178-54	TRANSISTOR	2SC2785		
		RESISTOR			
R601	⚠.1-217-292-00	WIRE WOUND	3.3	5W F	
R611	⚠.1-246-535-00	CARBON	390K	1/4W	
R612	⚠.1-246-535-00	CARBON	390K	1/4W	
R613	⚠.1-212-946-00	FUSIBLE	3.3	1/2W F	
R614	⚠.1-212-946-00	FUSIBLE	3.3	1/2W F	
R615	⚠.1-246-449-00	CARBON	100	1/4W	
R616	⚠.1-246-449-00	CARBON	100	1/4W	
R631	⚠.1-206-475-00	METAL OXIDE	33	2W F	
R632	⚠.1-247-082-00	CARBON	8.2	1/4W F	
R633	⚠.1-535-363-00	SHUNT	0.02	2W	
R634	⚠.1-246-485-00	CARBON	3.3K	1/4W	
R635	⚠.1-246-473-00	CARBON	1K	1/4W	
R636	⚠.1-246-453-00	CARBON	150	1/4W	
R637	⚠.1-246-417-00	CARBON	4.7	1/4W	
R638	⚠.1-246-473-00	CARBON	1K	1/4W	
R639	⚠.1-246-485-00	CARBON	3.3K	1/4W	
R640	⚠.1-246-485-00	CARBON	3.3K	1/4W	
R651	⚠.1-246-489-00	CARBON	4.7K	1/4W	
R652	⚠.1-246-497-00	CARBON	10K	1/4W	
R653	⚠.1-246-481-00	CARBON	2.2K	1/4W	
R654	⚠.1-246-489-00	CARBON	4.7K	1/4W	
R655	⚠.1-246-458-00	CARBON	240	1/4W	
R656	⚠.1-246-481-00	CARBON	2.2K	1/4W	
R681	⚠.1-246-789-00	CARBON	3.3K	1/8W	
R682	⚠.1-246-783-00	CARBON	1K	1/8W	
R683	⚠.1-246-789-00	CARBON	3.3K	1/8W	
R684	⚠.1-246-798-00	CARBON	18K	1/8W	
R685	⚠.1-246-787-00	CARBON	2.2K	1/8W	
R686	⚠.1-246-801-00	CARBON	33K	1/8W	
R687	⚠.1-246-781-00	CARBON	680	1/8W	
R688	⚠.1-246-790-00	CARBON	3.9K	1/8W	
R689	⚠.1-246-787-00	CARBON	2.2K	1/8W	
R690	⚠.1-246-790-00	CARBON	3.9K	1/8W	
R691	⚠.1-246-793-00	CARBON	6.8K	1/8W	
R692	⚠.1-246-783-00	CARBON	1K	1/8W	
R693	⚠.1-246-795-00	CARBON	10K	1/8W	
R694	⚠.1-246-798-00	CARBON	18K	1/8W	
R695	⚠.1-246-798-00	CARBON	18K	1/8W	
		VARIABLE RESISTOR			
RV651	⚠.1-228-141-00	RES, ADJ. METAL GLAZE 500			
RV681	⚠.1-228-141-00	RES, ADJ. METAL GLAZE 500			
		RELAY			
RY651	⚠.1-515-418-00	RELAY 12V 5A			
		SWITCH			
SW601	⚠.1-553-834-11	PUSH SW 250V 5A/80A			
		TRANSFORMER			
T601	⚠.1-421-481-00	LFT			
T611	⚠.1-421-486-00	CHOKE COIL, COMMON			
T612	⚠.1-447-282-00	CONV. T			
T613	⚠.1-437-120-00	DR. T			

****

MISCELLANEOUS
****

	1-533-037-00	HOLDER, FUSE	
	⚠.1-534-777-31	CORD, POWER	

****

CD-09 (DC-DC CONV)
****

CAPACITOR

C1	⚠.1-123-319-00	ELECT	47MF	16V
C2	⚠.1-161-190-00	CERAMIC	0.001MF	
C3	⚠.1-130-931-00	POLYPRO	0.0068MF	100V
C4	⚠.1-123-356-00	ELECT	10MF	50V
C5	⚠.1-123-356-00	ELECT	10MF	50V
C6	⚠.1-130-491-00	POLYESTER	0.047MF	
C7	⚠.1-130-491-00	POLYESTER	0.047MF	
C8	⚠.1-123-617-00	ELECT	10MF	16V

DIODE

D1	⚠.8-719-815-85	DIODE 1S1585
D2	⚠.8-719-815-85	DIODE 1S1585
D3	⚠.8-719-101-40	DIODE RD3.9E-L1

When indicating parts by reference number, please include the board name.

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Ref.No.	Part No.	Description			Remark
		COIL			
L1	⚠.1-421-550-00	66UH			
L2	⚠.1-421-549-11	36UH			
L3	⚠.1-408-575-00	100UH			
L4	⚠.1-408-575-00	100UH			
L5	⚠.1-408-416-00	47UH			
L6	⚠.1-408-571-00	47UH			
L7	⚠.1-408-571-00	47UH			
		PRINTED CIRCUIT BOARD			
	♦:1-608-212-00	CD.09			
		TRANSISTOR			
Q1	⚠.8-729-117-54	TRANSISTOR 2SA1175			
Q2	⚠.8-729-177-43	TRANSISTOR 2SD774			
Q3	⚠.8-729-178-54	TRANSISTOR 2SC2785			
Q4	⚠.8-729-178-54	TRANSISTOR 2SC2785			
		RESISTOR			
R1	⚠.1-246-789-00	CARBON	3.3K	1/8W	
R2	⚠.1-246-811-00	CARBON	220K	1/8W	
R3	⚠.1-246-802-00	CARBON	39K	1/8W	
R4	⚠.1-246-860-00	CARBON	24K	1/8W	
R5	⚠.1-246-805-00	CARBON	68K	1/8W	
R6	⚠.1-246-864-00	CARBON	51K	1/8W	
R7	⚠.1-246-852-00	CARBON	5.1K	1/8W	
R8	⚠.1-246-800-59	CARBON	27K	1/8W	
R8	⚠.1-246-802-59	CARBON	39K	1/8W	
R8	⚠.1-246-803-59	CARBON	47K	1/8W	
R8	⚠.1-246-804-59	CARBON	56K	1/8W	
R8	⚠.1-246-861-59	CARBON	30K	1/8W	
R8	⚠.1-246-862-59	CARBON	36K	1/8W	
R8	⚠.1-246-866-59	CARBON	75K	1/8W	
R9	⚠.1-246-771-00	CARBON	100	1/8W	
		TRANSFORMER			
T1	⚠.1-447-383-00	CONV.T			

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

MEMO

RMT-212

SERVICE MANUAL

June, 1982

SPECIFICATIONS

Remote control unit

Remote control system	Infrared control
Power requirements	3V dc, 2 size AA batteries (IEC designation R6)
Dimensions	Approx. 65 × 150 × 18 mm (w/h/d) ($2^5/_8 \times 6 \times {}^3/_4$ inches) incl. projecting parts and controls
Weight	Approx. 140 g (5 oz) incl. batteries

REMOTE CONTROL UNIT

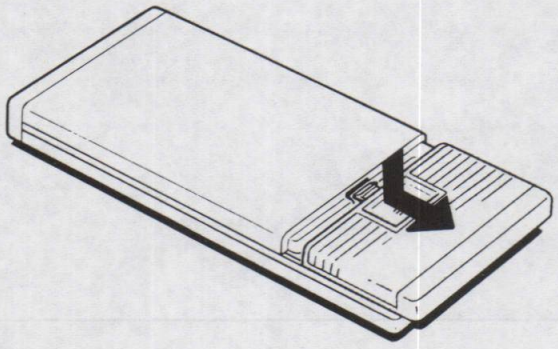
SONY®

1. REMOTE CONTROL OPERATION

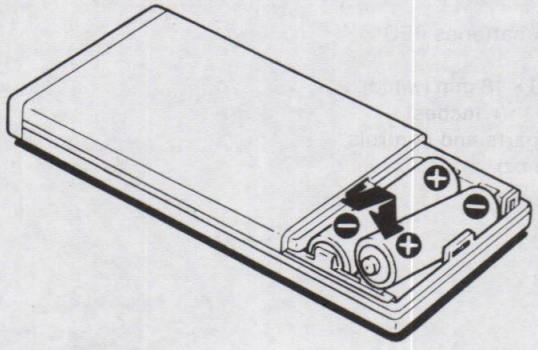
You can control almost all the functions of the SL-C9E video cassette recorder from you armchair using the supplied remote control unit.

BATTERY INSERTION

1. Open the lid.



2. Insert two size AA batteries (IEC designation R6) with correct polarity.



3. Close the lid firmly.

Notes on the remote control unit

- Avoid dropping foreign objects into the cabinet, particularly when replacing batteries.
- Keep the unit away from extremely hot or humid places.
- Avoid mechanical shock to the unit.
- This remote control unit may be used only with the SL-C9E video cassette recorder.

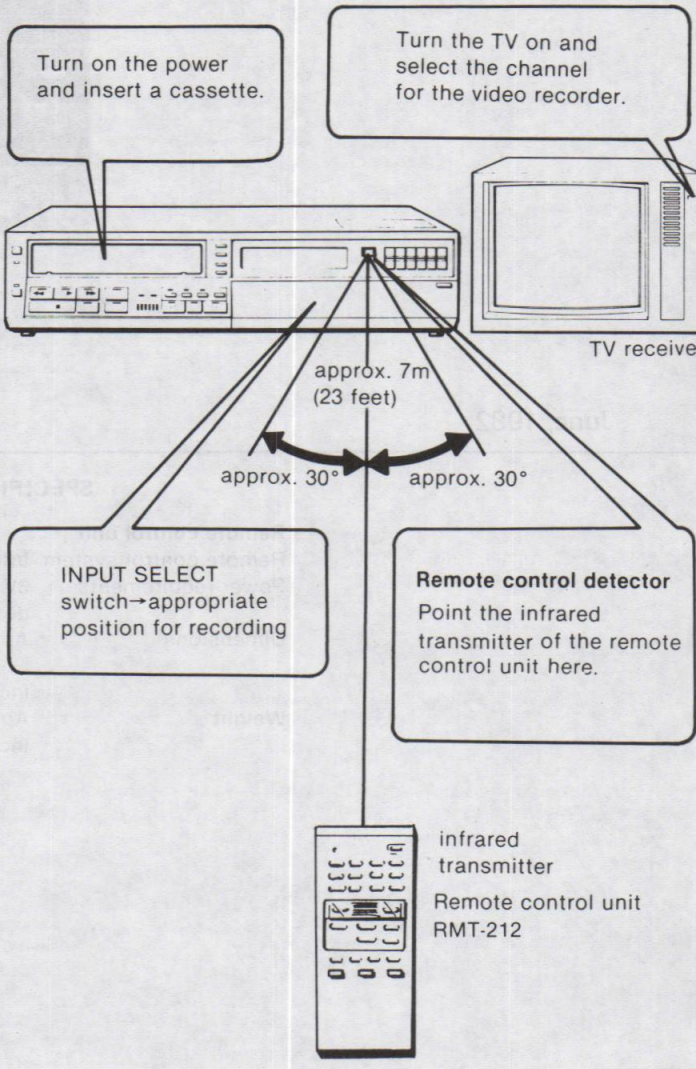
Battery life

In normal operation, batteries will last for about six months. If the range of the remote control unit becomes noticeably short, replace the batteries with new ones. When the batteries are exhausted, the remote function indicator will not light when the buttons on the control unit are pressed.

If the remote control unit is not to be used for a long period of time, remove the batteries to avoid possible damage from battery leakage.

HOW TO USE THE REMOTE CONTROL UNIT

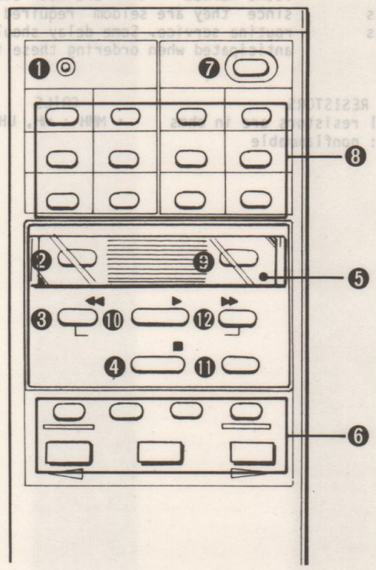
Preparation


Turn on the power and insert a cassette.
Turn the TV on and select the channel for the video recorder.
TV receive
approx. 7m (23 feet)
approx. 30°
approx. 30°
INPUT SELECT switch→appropriate position for recording
Remote control detector
Point the infrared transmitter of the remote control unit here.
infrared transmitter
Remote control unit RMT-212

Notes

- There should be no obstacles between the remote control uni and the remote control detector of the recorder.
- The shorter the distance between the remote control unit and the recorder, the wider the angle within which the recorder can be controlled.

Function of the buttons
The buttons on the remote control unit perform the same function as the corresponding buttons on the video recorder.



❶ Remote function indicator
Lights up when any of the buttons on the remote control unit are pressed.

❷ PAUSE button
Press to stop the tape momentarily. To resume the previous mode, press it again.

❸ REW ◀◀ button
Press to rewind the tape. Used also for reverse picture search operation during playback.

❹ ■STOP button
Press to stop the tape.

❺ Sliding cover
During playback, slide this cover over the record button to prevent accidental recording. During recording, slide this cover down to prevent accidental interruption of recording.

❻ SPEED CONTROL buttons
During playback or double speed playback, first select the playback speed with the FRAME, 1/10, 1/5 or 1 button, then select the playback direction with the ▷ or ◁ button.
● For frame-by-frame playback, press and release the ▷ or ◁ button repeatedly. Keep the button depressed for continuous frame-by-frame playback.

❼ ON button
Press to turn the power on. To turn it off, press again.

❽ Programme select buttons
Press to select a programme to be viewed or to be recorded.

❾ REC ● button
Press to start recording.

❿ PLAY ▶ button
Press to play the tape back.

⓫ ×2 button
Press to obtain a double speed playback picture.

⓬ ▶▶ FF button
Press to adavance the tape rapidly. Used also forward picture search operation during playback.

OPERATION

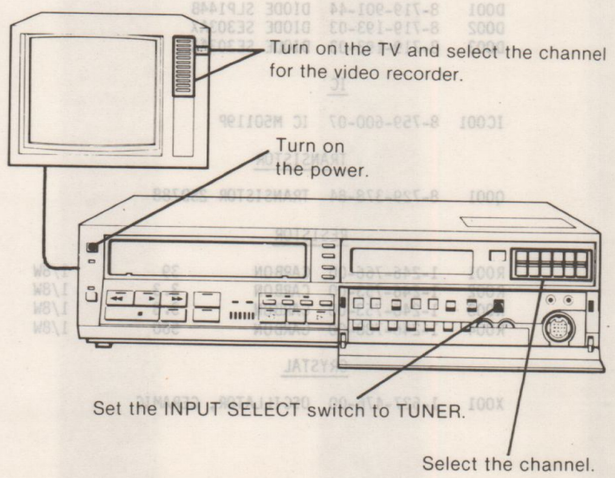
Recording
1. Select the channel to be recorded with the programme select buttons.
2. Press the REC button. The recording will begin.

To stop recording, press the STOP button.

Playback
Press the PLAY ▶ button. Playback will begin.
To stop playback, press the ■ STOP button.

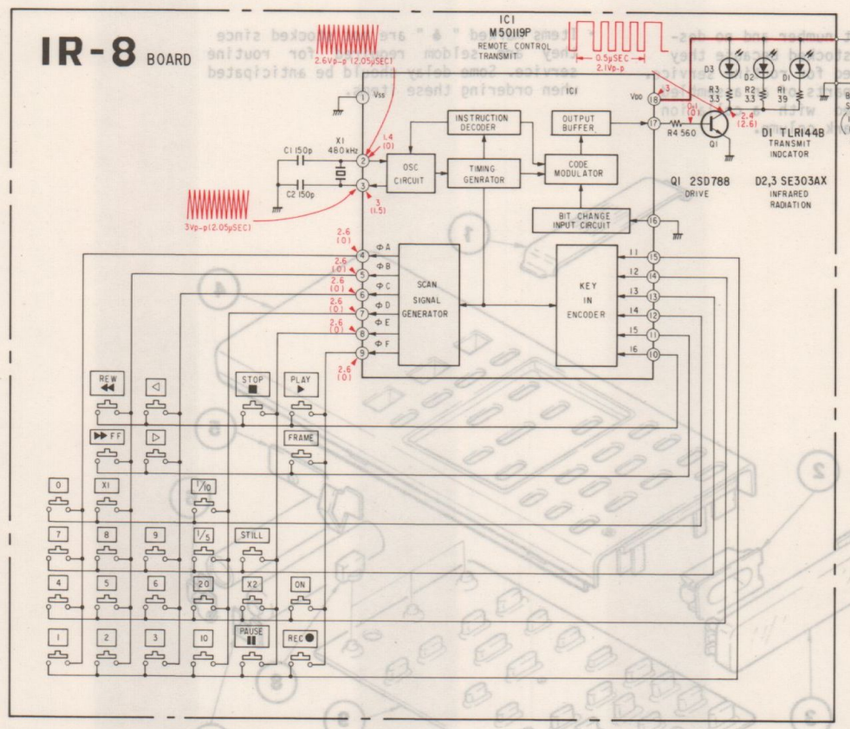
WATCHING TELEVISION

You can watch television in the usual way when recorder is turned off. You will find it convenient to use the recorder to remotely control TV channel selection.

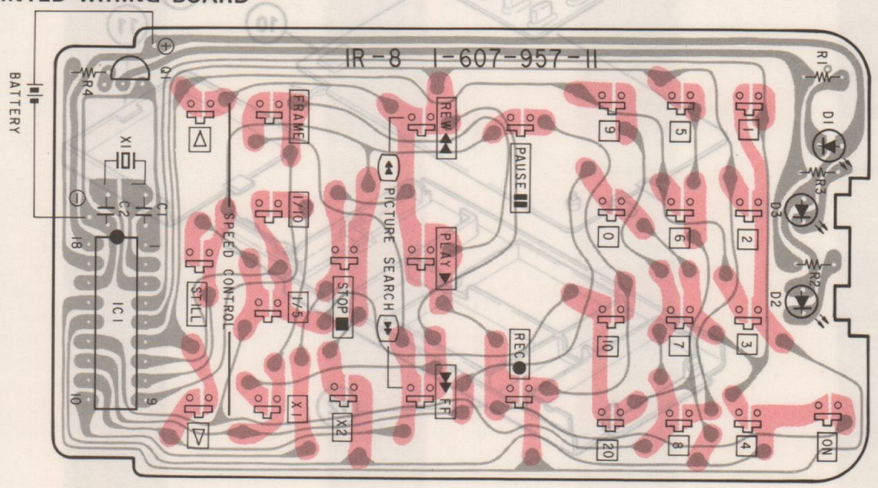

Turn on the TV and select the channel for the video recorder.
Turn on the power.
Set the INPUT SELECT switch to TUNER.
Select the channel.

Channel selection is even easier when you use the supplied remote control unit.

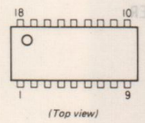
2. SCHEMATIC DIAGRAM



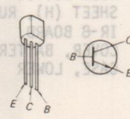
3. PRINTED WIRING BOARD



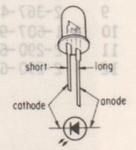
M50119P



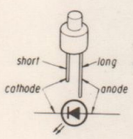
2SD788



SE303AX

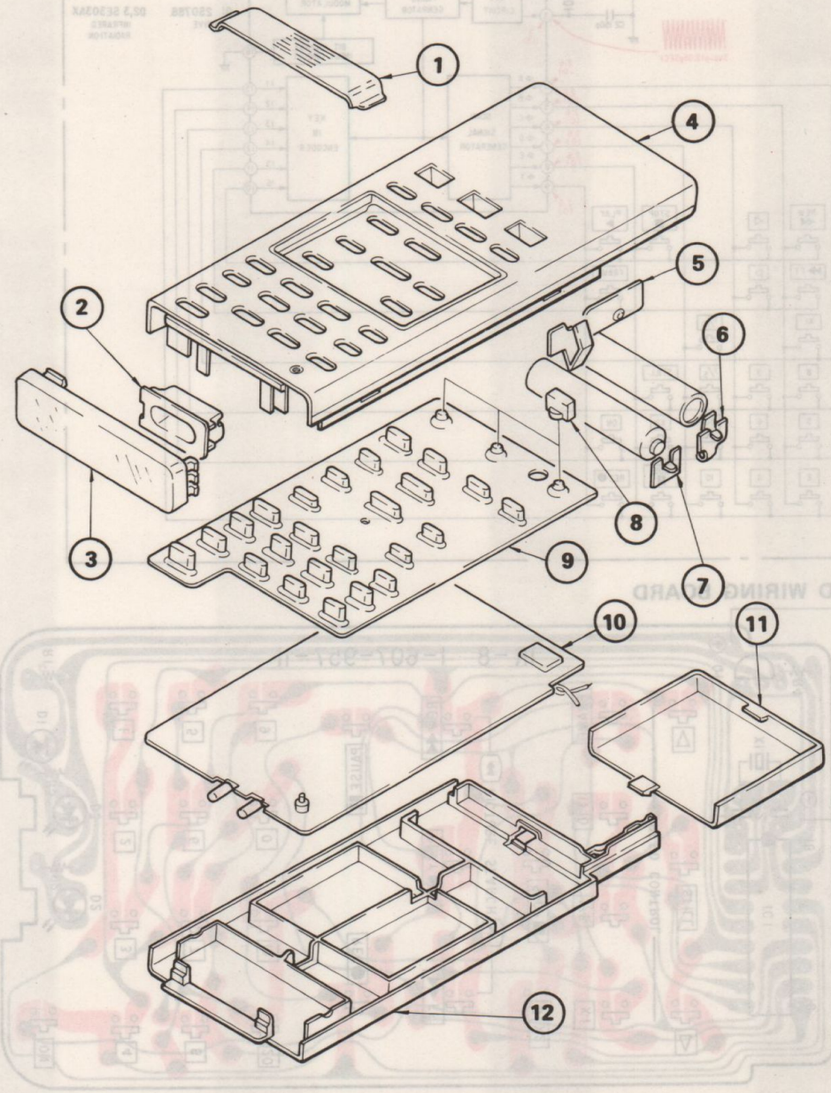


SLP144B



5. EXPLODED VIEW

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.



No.	Part No	Description	Remark
1	2-290-603-00	CURSOR	
2	2-298-402-00	MIRROR	
3	2-290-608-00	PLATE, FROSTED	
4	X-2367-401-0	CASE (F) ASSY, UPPER	
5	4-350-925-00	TERMINAL (C), BATTERY	
6	2-290-601-00	TERMINAL (A), BATTERY	
7	2-290-602-00	TERMINAL (B), BATTERY	
8	2-290-604-00	PUSH BUTTON	
9	2-367-403-00	SHEET (H), RUBBER	
10	♦:1-607-957-00	IR-8 BOARD	
11	2-290-606-00	COVER, BATTERY	
12	2-290-611-00	CASE, LOWER	

6. ELECTRICAL PARTS LIST

NOTE:
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

CAPACITORS
- MF : μF, PF : μμF

RESISTORS
- All resistors are in ohms
- F : nonflammable

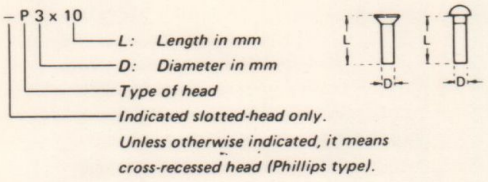
COILS
- MMH : mH, UH : μH

When indicating parts by reference number, please include the board name.

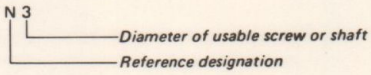
Ref.No.	Part No.	Description			Remark
	1-607-957-00	IR-8 BOARD			
		**********			
	2-290-601-00	TERMINAL (A), BATTERY			
	2-290-602-00	TERMINAL (B), BATTERY			
		CAPACITOR			
C001	1-102-108-00	CERAMIC	150PF	10% 50V	
C002	1-102-108-00	CERAMIC	150PF	10% 50V	
		DIODE			
D001	8-719-901-44	DIODE SLP144B			
D002	8-719-193-03	DIODE SE303AX			
D003	8-719-193-03	DIODE SE303AX			
		IC			
IC001	8-759-600-07	IC M50119P			
		TRANSISTOR			
Q001	8-729-378-84	TRANSISTOR 2SD788			
		RESISTOR			
R001	1-246-766-00	CARBON	39	1/8W	
R002	1-246-753-00	CARBON	3.3	1/8W	
R003	1-246-753-00	CARBON	3.3	1/8W	
R004	1-246-780-00	CARBON	560	1/8W	
		CRYSTAL			
X001	1-527-476-00	OSCILLATOR, CERAMIC			

HARDWARE NOMENCLATURE

Screw:



Nut, Washer, Retaining ring:



Reference Designation	Shape	Description	Remarks
SCREWS			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		brazier-head screw	

Reference Designation	Shape	Description	Remarks
SELF-TAPPING SCREWS			
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
SET SCREWS			
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
NUT			
N		nut	
WASHERS			
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
RETAINING RINGS			
E		retaining ring	
G		grip-type retaining ring	

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SL-C9E/C9UB
RMT-212/213

SONY
SERVICE MANUAL

AEP Model
SL-C9E
RMT-212
UK Model
SL-C9UB
RMT-213

May, 1983

SUPPLEMENT-2

SUBJECT: 1) FH-2 BOARD IS ADDED.
2) CORRECTION OF EXPLODED VIEW.

This supplement updates the service manual to include production changes starting with the serial number inscribed on the following.
File this supplement with the service manual.

INTRODUCTION

(A) FH-2 board is added. (See page 34)
SL-C9E: Serial No. 250,501 and later.
SL-C9UB: Serial No. 219,701 and later.

(B) Correction of Exploded View. (See page 78, 79)

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MICROFILM

Consumer
VIDEO

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2. EXPLODED VIEWS

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3. ELECTRICAL PART LIST 80

SAFETY CHECK-OUT

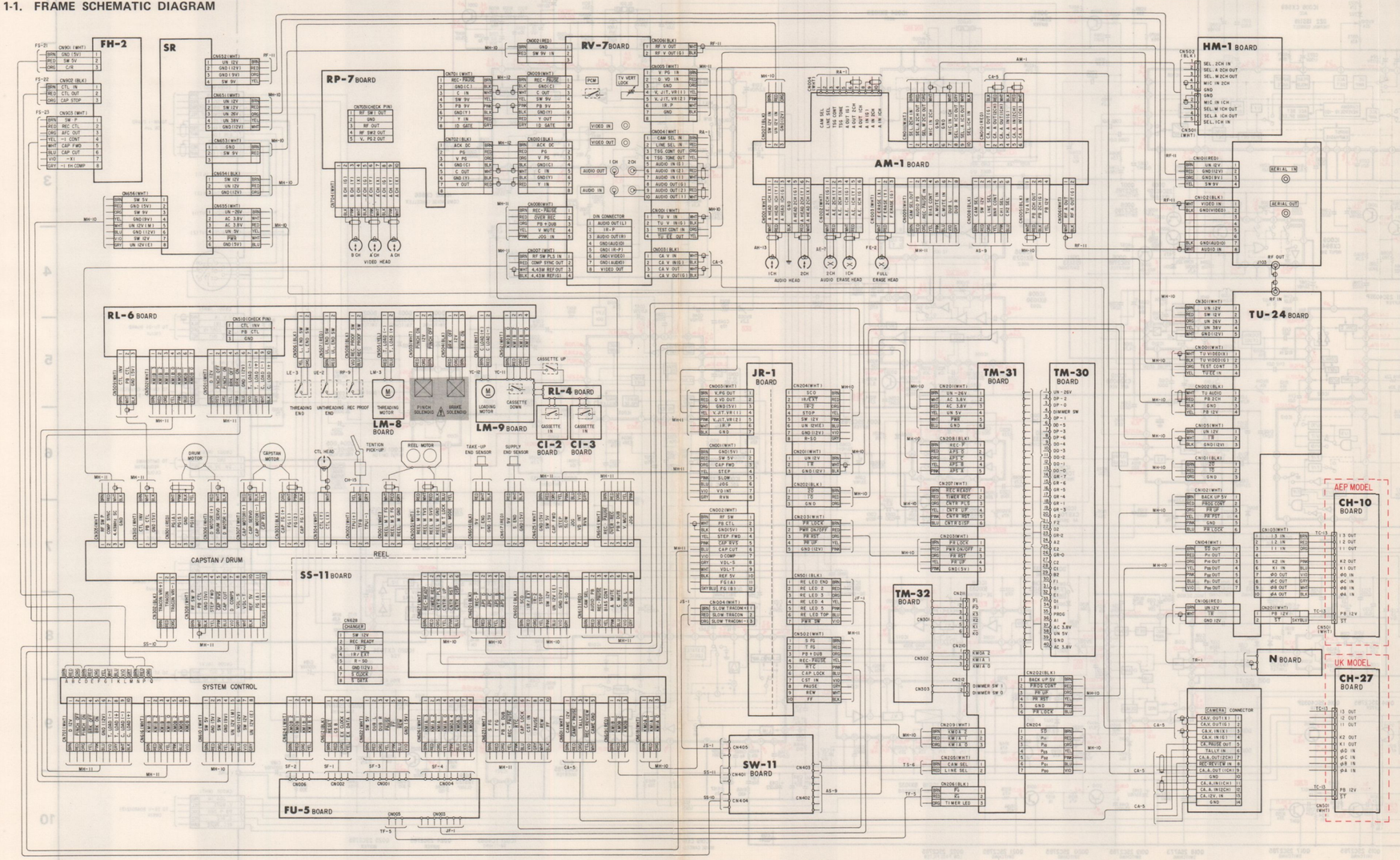
After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
4. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
5. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.

SECTION 1
DIAGRAMS

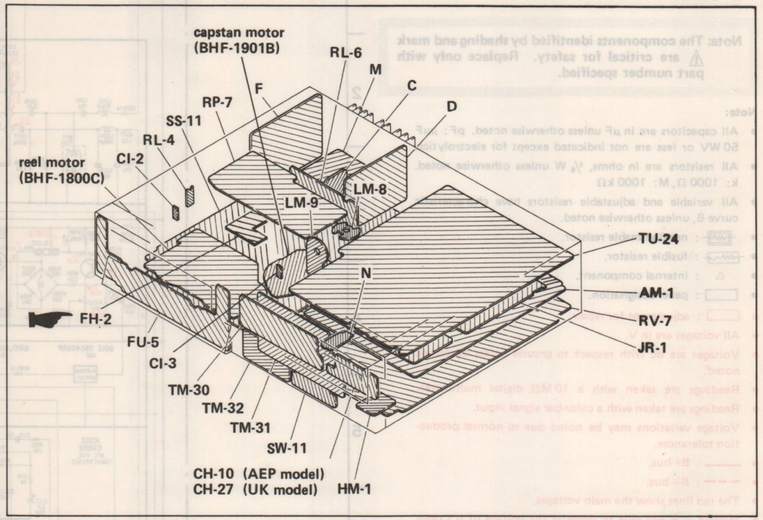
FRAME FRAME

1-1. FRAME SCHEMATIC DIAGRAM



1-2. CIRCUIT BOARDS LOCATION

: indicates added portion



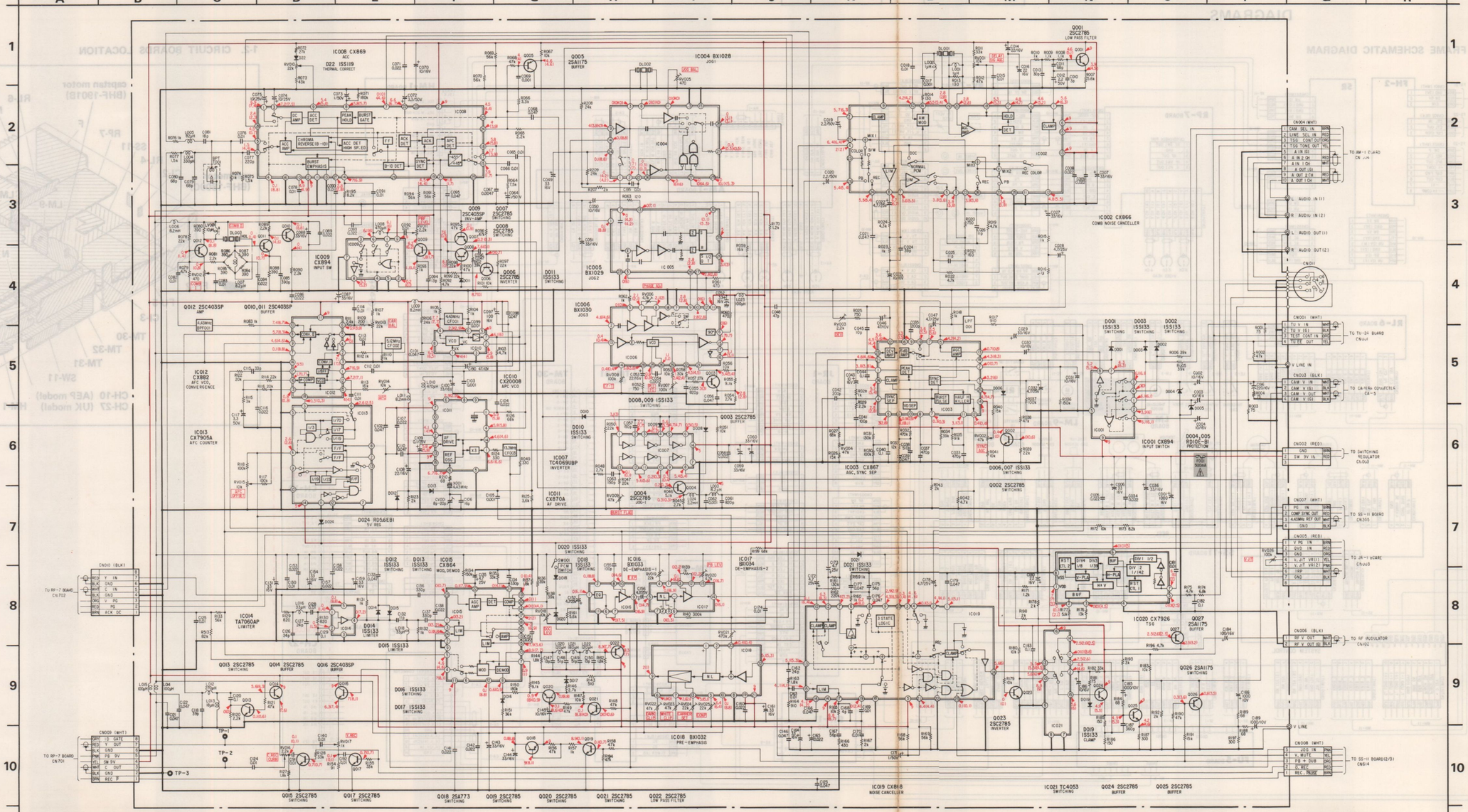
1-3. SCHEMATIC DIAGRAM – *Ref. No. 1000 series* –

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

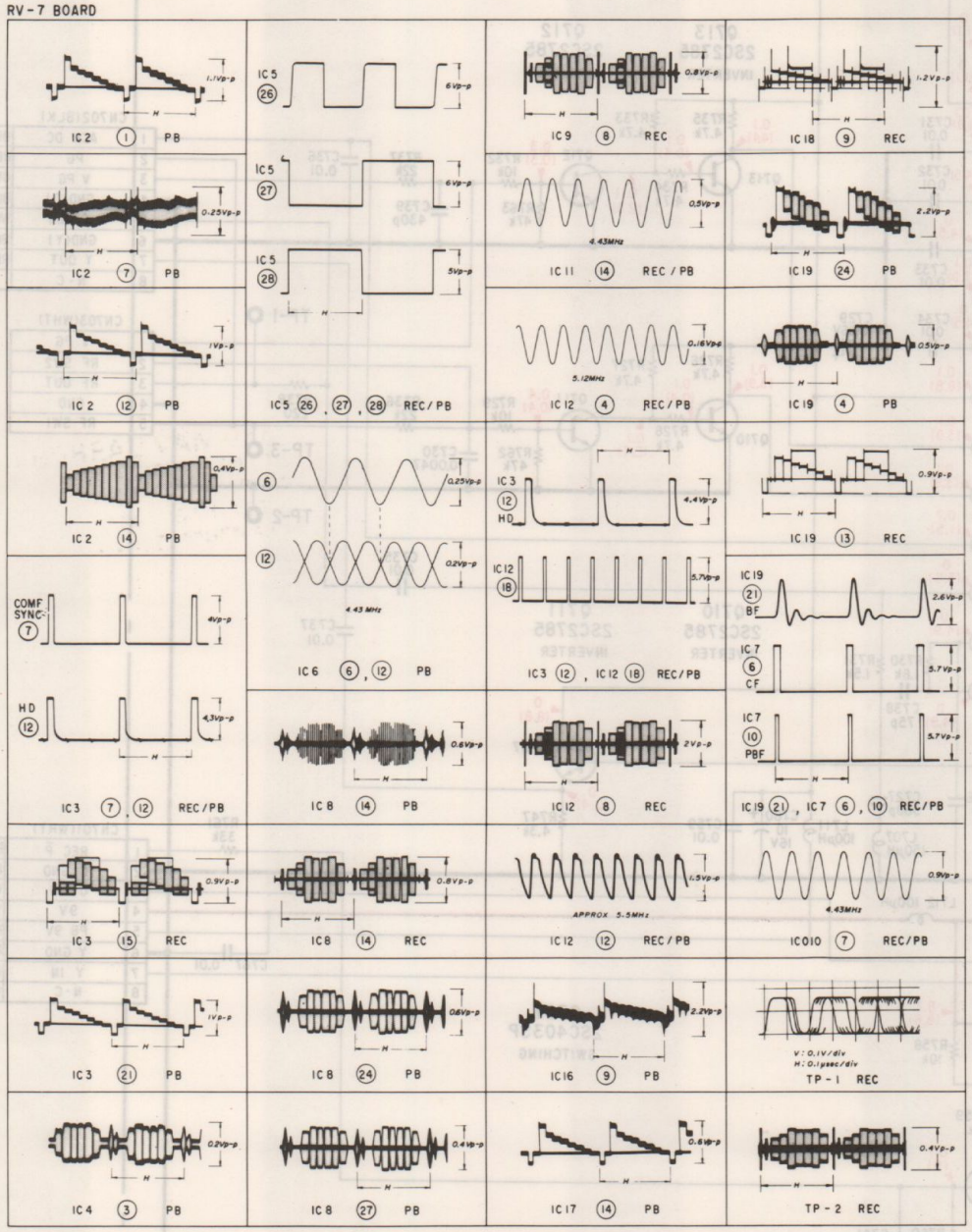
Note:

- All capacitors are in μF unless otherwise noted. pF: μμF
  50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms, 1/8 W unless otherwise noted.
  k: 1000 Ω, M: 1000 kΩ
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : nonflammable resistor.
- : fusible resistor.
- △ : internal component.
- : panel designation.
- : adjustment for repair.
- All voltages are in V.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 10 MΩ digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- ——— : B+ bus.
- – – – : B– bus.
- The red lines show the main voltages.
- Marked * is not able to measure the voltage of it's position.
- No mark: REC mode
- ( ) : PB mode
- < > : CUE/REV mode
- [ ] : TEST SIG mode

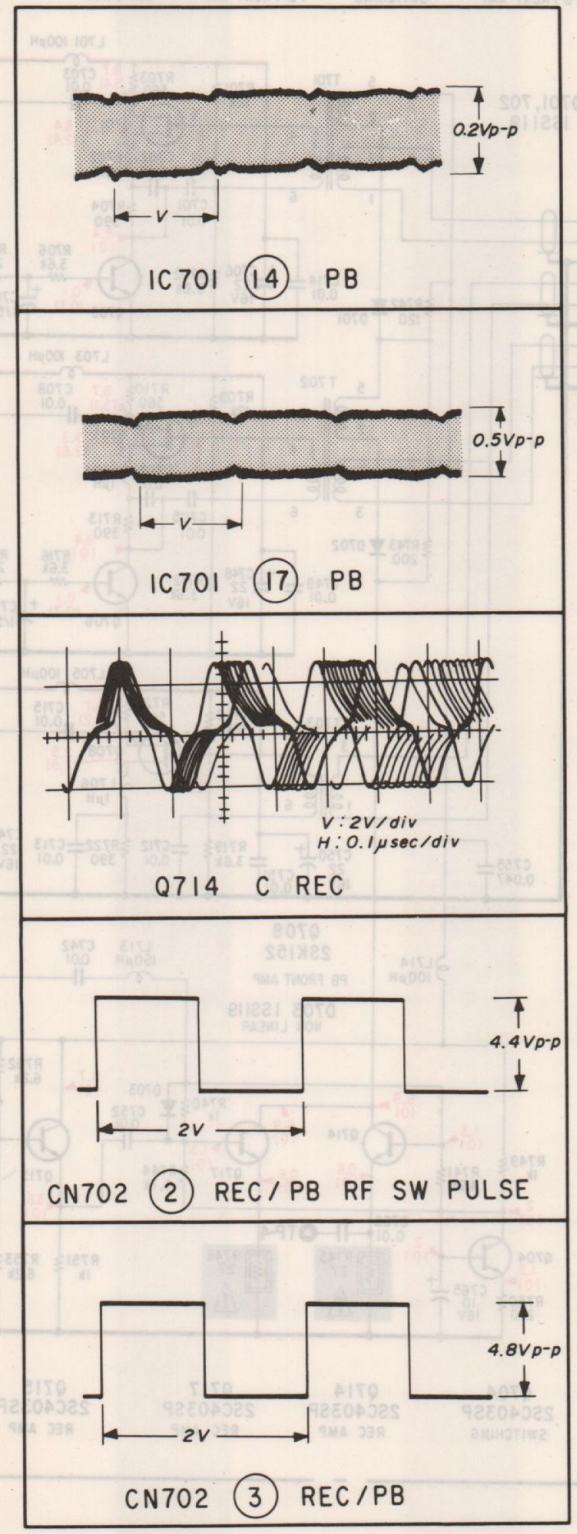
When indicating parts by reference number, please include the board name.



RV-7 BOARD



RP-7 BOARD



1-4. SCHEMATIC DIAGRAM — *Ref. No. 1700 series* —

Note:
- No mark: REC mode
- ( ) : PB mode

RP-7 BOARD

Q701 2SK152 PB FRONT AMP
Q703 2SC2785 SWITCHING
Q705 2SK152 PB FRONT AMP
Q706 2SC2785 SWITCHING
D701, 702 ISS119
T701
T702
T703
L701 100µH
L702 1µH
L703 100µH
L704 1µH
L705 100µH
L706 1µH
CN704(WHT)
ACH (X)
ACH (Y)
ACH (G)
A'CH (X)
A'CH (Y)
A'CH (G)
BCH (X)
BCH (Y)
BCH (G)
Y&C PB AMP GAIN
RV701 2.2k
RV702 2.2k
RV703 2.2k
RV704 2.2k
RV705 2.2k
T4
T5
IC701
CX863
PB AMP
OFF SET CANCELLAR
Q708 2SK152 PB FRONT AMP
D703 ISS119 NON LINEAR
L712 100µH
L713 150µH
L714 100µH
Q704 2SC403SP SWITCHING
Q714 2SC403SP REC AMP
Q717 2SC403SP REC AMP
Q715 2SC403SP REC AMP
Q716 2SC403SP REC AMP
Q718 2SA773 SWITCHING
Q719 2SC2785 SWITCHING
TP-1
TP-2
TP-3
TP-4
Q713 2SC2785 INVERTER
Q712 2SC2785 INVERTER
Q710 2SC2785 INVERTER
Q711 2SC2785 INVERTER
Q707 2SC403SP SWITCHING
CN702(BLK)
ACK DC
PG
V PG
GND(C)
C OUT
GND(Y)
Y OUT
N·C
TO RV-7 BOARD CN010
CN703(WHT)
V PG
RF SW2
RF OUT
GND
RF SWI
CN701(WHT)
REC P
C GND
C IN
9V
PB 9V
Y GND
Y IN
N·C
TO RV-7 BOARD CN009

When indicating parts by reference number, please include the board name.

1-5. PRINTED WIRING BOARDS — *Ref. No. RV-7: 1000 series, RP-7: 1700 series* —

— Conductor Side —

RV-7 RP-7 [VIDEO]

Note:
● : B+ pattern

RV-7 BOARD

RP-7 BOARD

1-6. SCHEMATIC DIAGRAM — *Ref. No. JR-1 BOARD (1/2) 7000 series* —

Note:

- No mark: PB mode
- ( ) : STILL mode
- [ ] : x1 REVERSE mode
- Marked * is not able to measure the voltage of its position.

When indicating parts by reference number, please include the board name.

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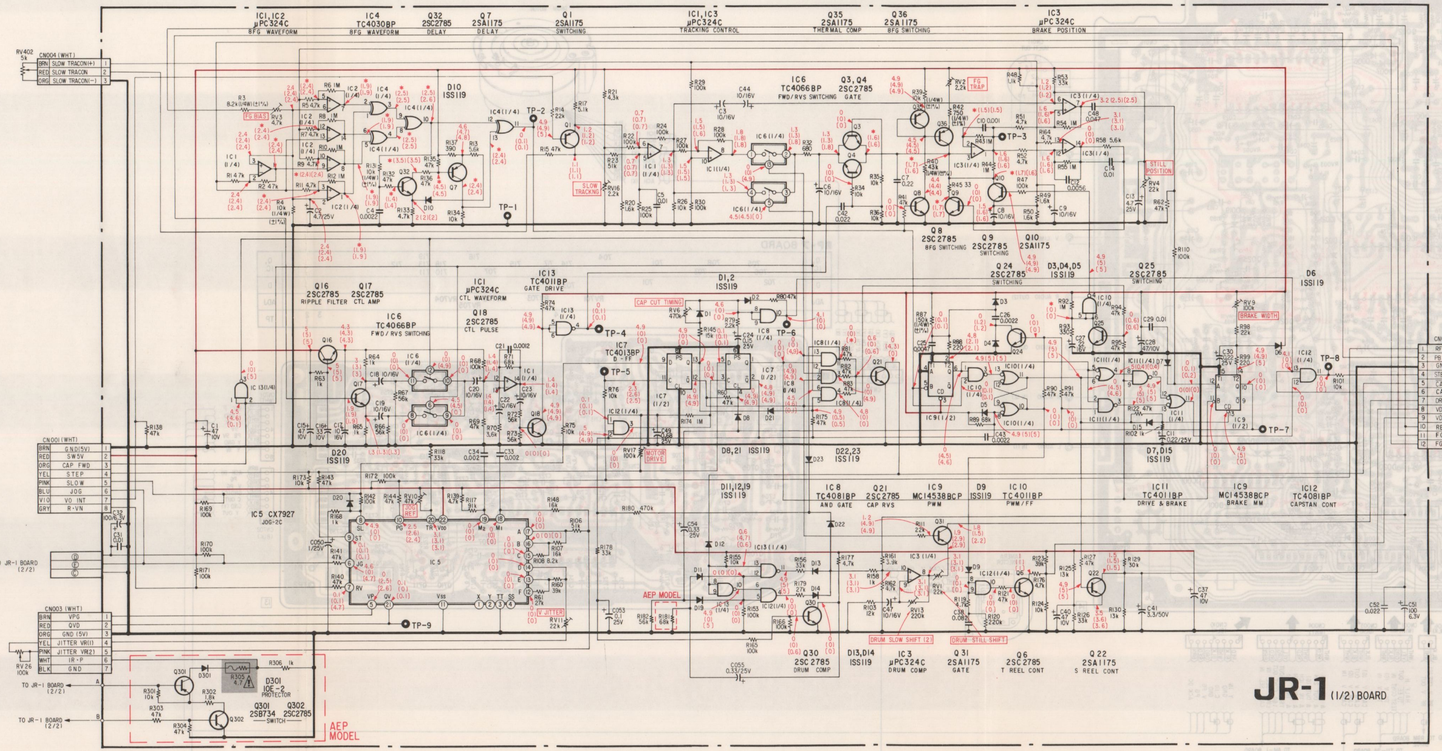
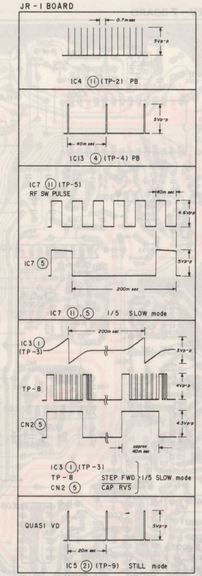
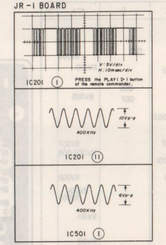






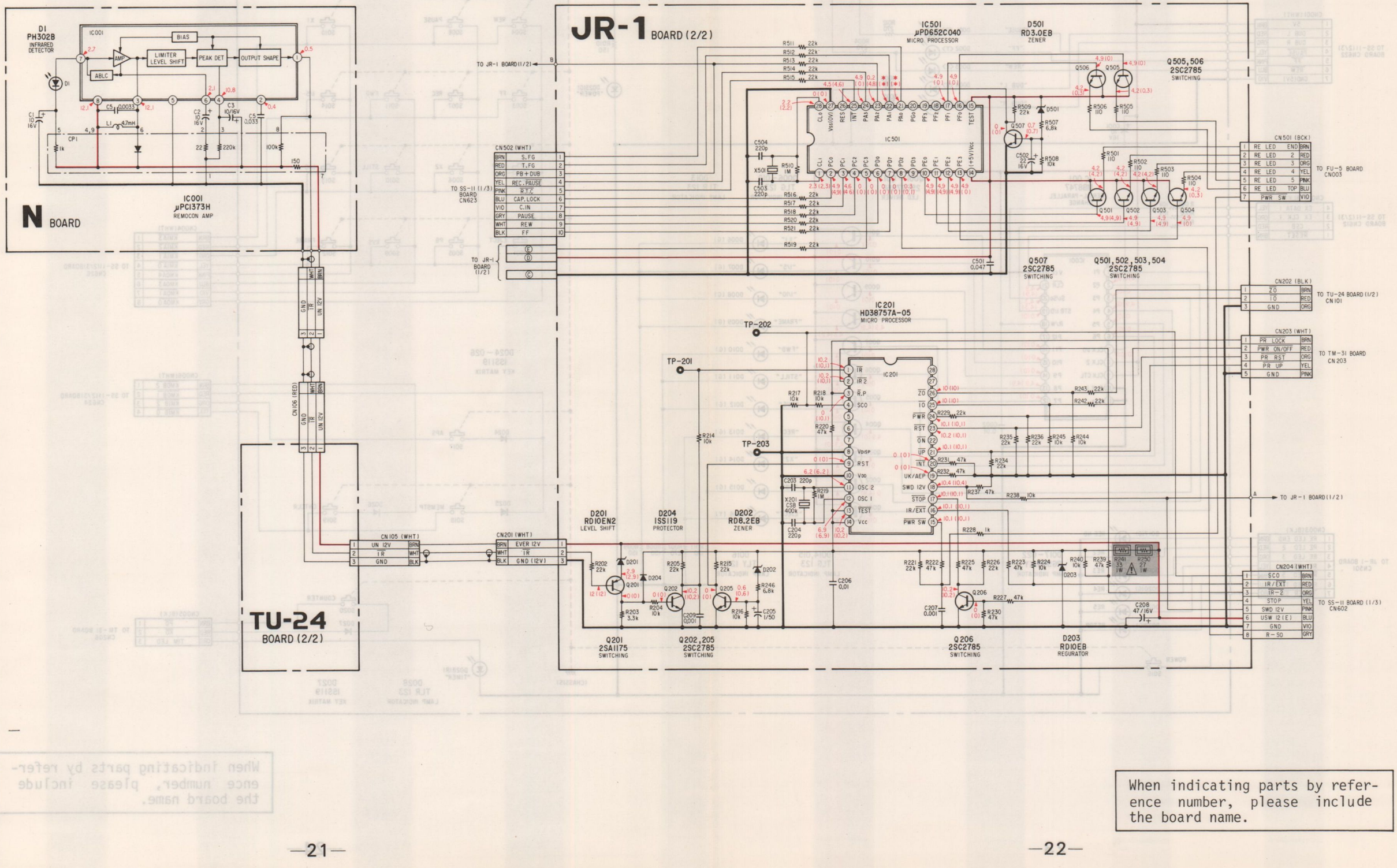
1-7. SCHEMATIC DIAGRAM

– Ref. No. JR-1 BOARD (2/2): 7200 series, N BOARD 100 series –

Note:

- N board voltage: E-E mode

JR-1 (2/2) **TU-24 (2/2)** **N** (VIDEOLA, REMOCON, AMOUNT OF TAPE REMAINING, INF AMP)



When indicating parts by reference number, please include the board name.

FU-5 [FUNCTION SW]

Note:

- No mark: REC mode
- ( ) : PB mode

FU-5 BOARD

D001 TLO 123 LAMP INDICATOR
D002,003 TLY 123 LAMP INDICATOR
D004,005 TLR 123 LAMP INDICATOR
D023 TLG 123 LAMP INDICATOR

CN001(WHT)

1	5V	BRN
2	DUB L	RED
3	DUB R	ORG
4	PAUSE	YEL
5	FF	PINK
6	REW	BLU
7	GND(5V)	VIO

TO SS-11(2/3) BOARD CN622

"PAUSE" D001 (O) R012 270
"FF" D002 (Y) R004 270
"REW" D003 (Y)
"DUB L" D004 (R) R006 270
"DUB R" D005 (R) R005 270
C001 10 16V
R010 150
D023(G) "POWER"

CN002(BLK)

4	EX DATA I	YEL
3	EX CLK I	ORG
2	CSB	RED
1	RESET	BRN

TO SS-11(2/3) BOARD CN612

R001 10k
R002 10k
R003 10k

IC 001 MB8747 SERIAL-PARALLEL CHANGE

IC001 pins: P1, P2, P3, P4, P5, P6, CLK I/O, CLK 2, CLK CTL, CLK I, Vss, Vcc, CLR, SI/SO, STB I/O, R/W, P12, P11, P10, P9, P8, P7

C002 0.01

Q001 – Q011 2SC2785F LED DRIVER

D006 – 012 TLG 123 LAMP INDICATOR
D013 TLR 123 LAMP INDICATOR

Q011 "X1" D006 (G)
Q010 "1/5" D007 (G)
Q009 "1/10" D008 (G)
Q008 "FRAME" D009 (G)
Q007 "FWD" D010 (G)
Q006 "STILL" D011 (G)
Q005 "RVS" D012 (G)
Q004 "REC" D013 (G)
Q003 "X2" D014 (G)
Q002 "PB" D015 (G)
Q001 "EJECT" D016 (Y)

D014,015 TLG 123 LAMP INDICATOR
D016 TLY 123 LAMP INDICATOR

R011 150 R007 270 R008 150 R009 150

D024 – 026 ISS119 KEY MATRIX

REW S004, PAUSE S008, X1 S015
FF S003, REC S007, FWD S011, 1/5 S014
STOP S002, X2 S006, STILL S010, 1/10 S013
EJECT S001, PB S005, RVS S009, FRAME S012

CN004(WHT)

BRN	KMIA 3	1
RED	KMIA 2	2
ORG	KMIA 1	3
YEL	KMIA 0	4
PINK	KMOA 4	5
BLU	KMOA 3	6
VIO	KMOA 1	7
GRY	KMOA 0	8

TO SS-11(2/3)BOARD CN626

CN006(WHT)

BRN	KMOB 2	1
RED	KMOB 1	2
ORG	KMIB 2	3
YEL	KMIB 0	4

TO SS-11(2/3)BOARD CN624

D024 APS S017
D025 MEMSTP S018
D026 CNTCLR S019
COUNTER S020
D027

CN005(BLK)

BRN	PO	1
RED	KO	2
ORG	TIM LED	3

TO TM-31 BOARD CN206

CN003(BLK)

1	RE LED END	BRN
2	RE LED 2	RED
3	RE LED 3	ORG
4	RE LED 4	YEL
5	RE LED 5	PINK
6	RE LED TOP	BLU
7	POWER SW	VIO

TO JR-1 BOARD CN501

D017(G) REE ND
D018(G) RE2
D019(G) RE3
D020(G) RE4
D021(G) RE5
D022(G) RETOP

D017 – 022 PG5531KY LAMP INDICATOR

POWER S016

(CHASSIS)

D028(R) "TIMER"

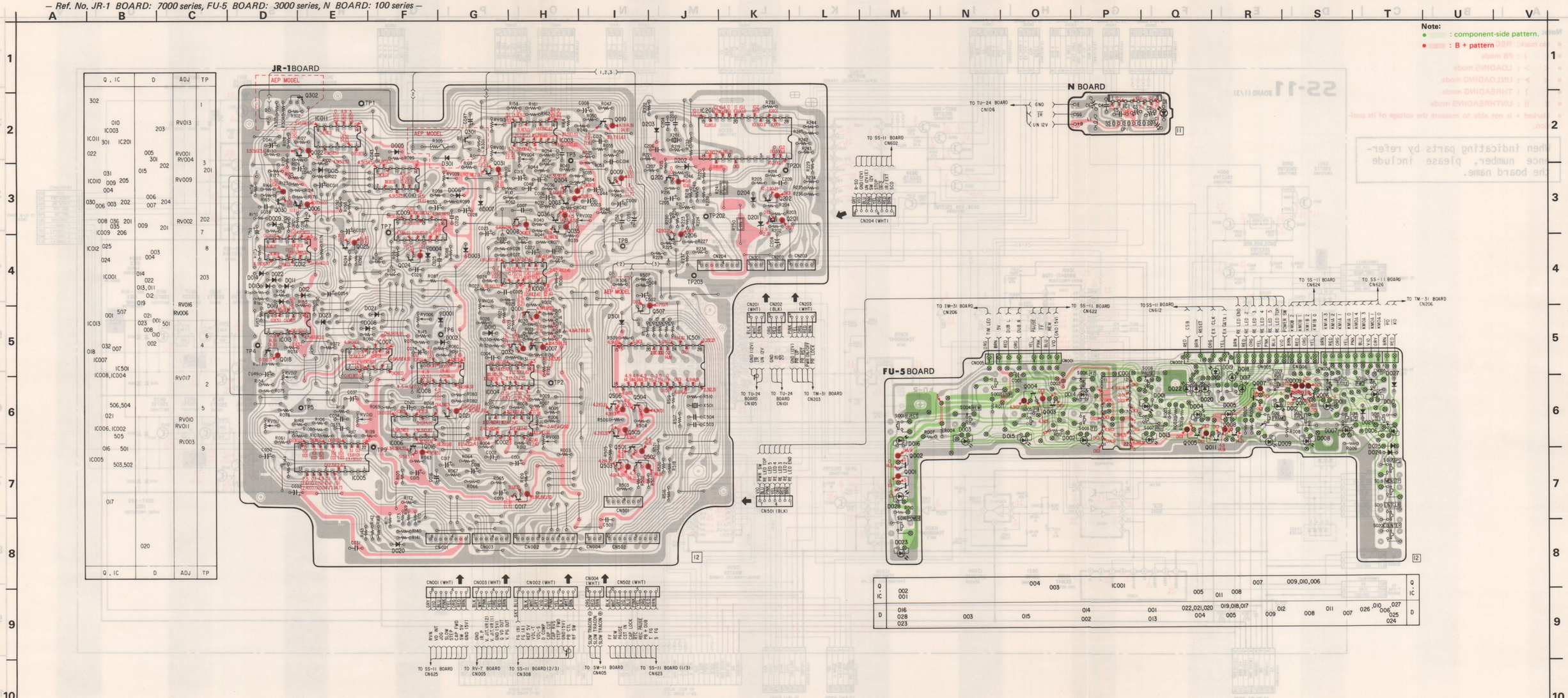
D028 TLR 123 LAMP INDICATOR
D027 ISS119 KEY MATRIX

When indicating parts by reference number, please include the board name.

(VARIABLE SPEED PLAYBACK, REMOCON, AMOUNT OF TAPE REMAINING, PILOT ID, FUNCTION SW) JR-1 FU-5 N

1-9. PRINTED WIRING BOARDS – *Conductor Side* –

– Ref. No. JR-1 BOARD: 7000 series, FU-5 BOARD: 3000 series, N BOARD: 100 series –

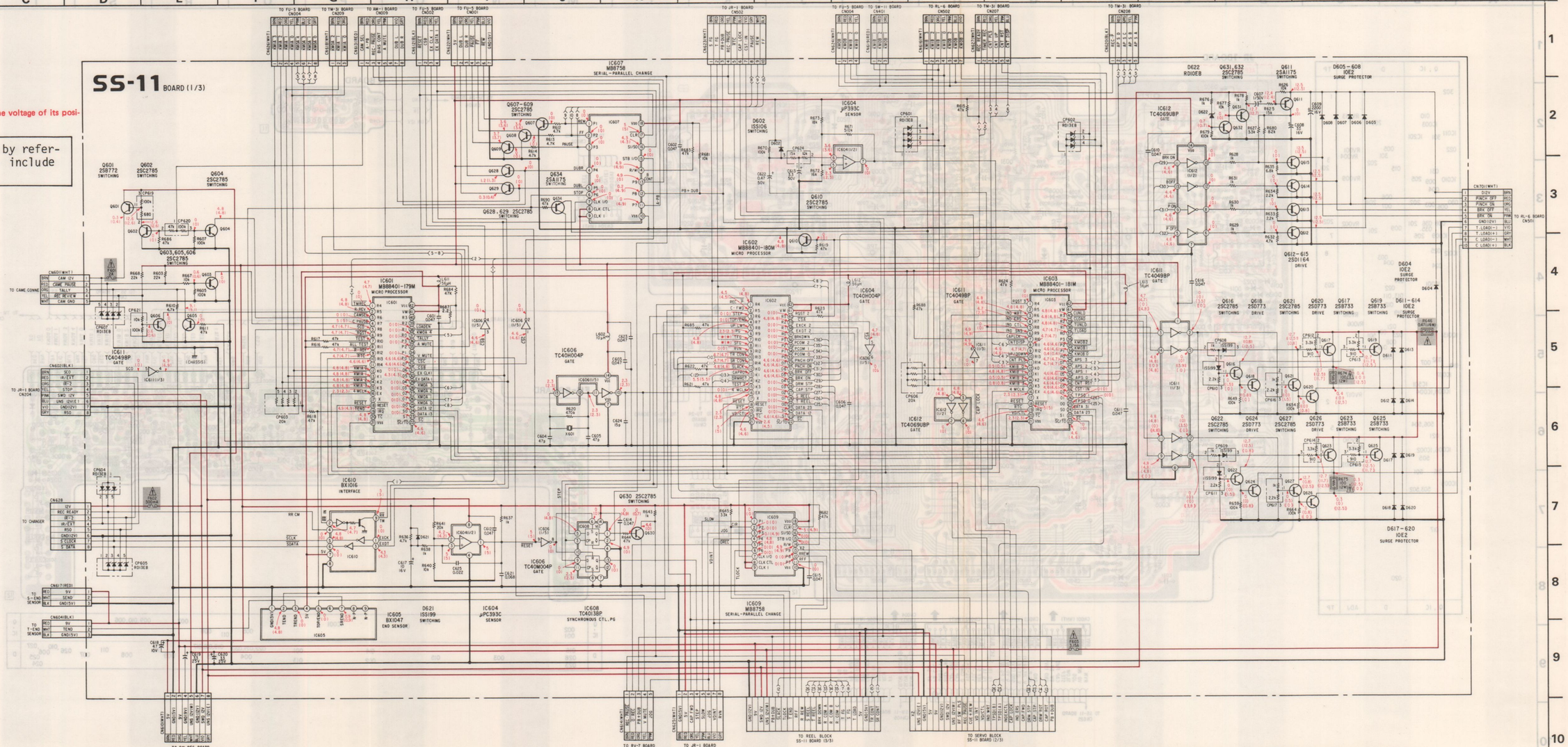


1-10. SCHEMATIC DIAGRAM — *Ref. No. 2600 series* —

Note:

- No mark: REC mode
- ( ) : PB mode
- < > : UNLOADING mode
- ≪ ≫ : UNLOADING mode
- [ ] : THREADING mode
- (( )) : UNTHREADING mode
- Marked • is not able to measure the voltage of its position.

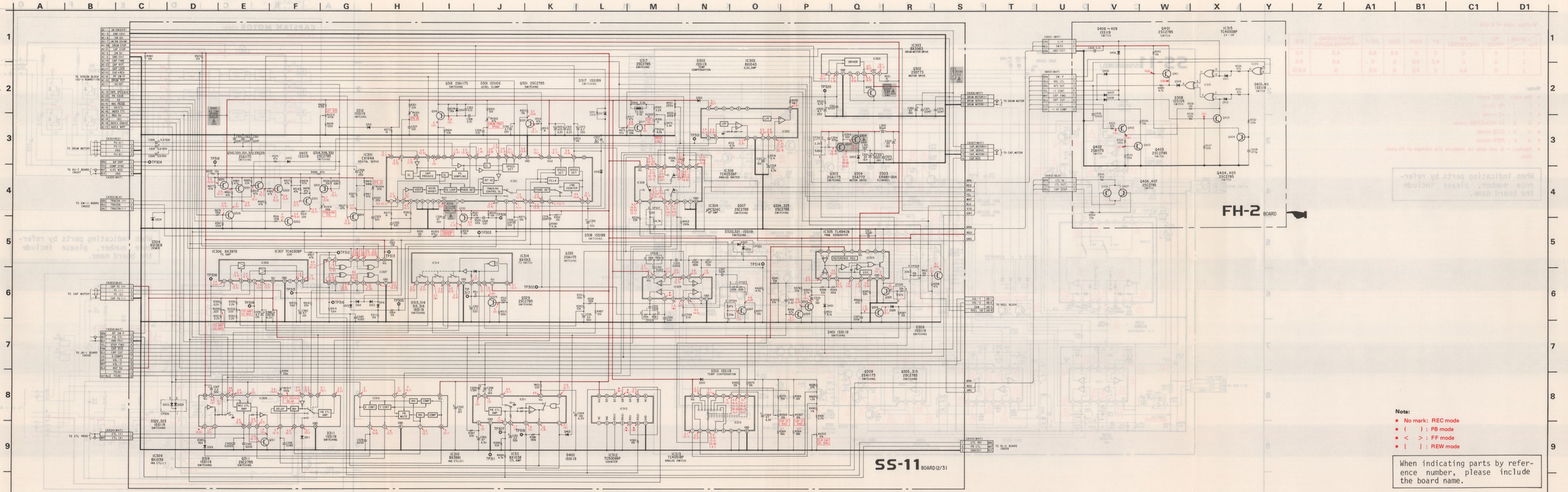
When indicating parts by reference number, please include the board name.



1-11. SCHEMATIC DIAGRAM – *Ref. No. 200 ~ 2500 series* –

(A) FH-2 board is added.
SL-C9E: Serial No. 250,501 and later.
SL-C9UB: Serial No. 219701 and later.
: indicates added portion

SS-11 (2/3) FH-2 [CAPS & DRUM]



Note:
- No mark: REC mode
- ( ) : PB mode
- < > : FF mode
- [ ] : REW mode

When indicating parts by reference number, please include the board name.

1-12. SCHEMATIC DIAGRAM – *Ref. No. 2800 series* –

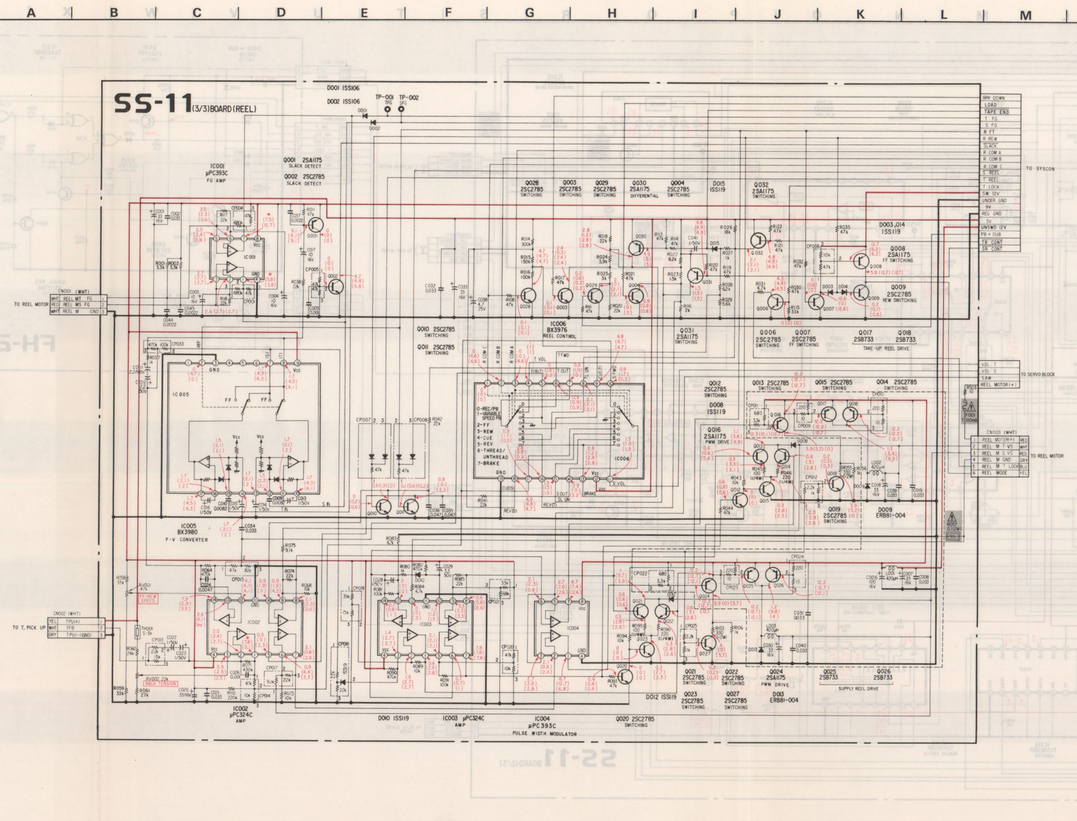
Voltage table of IC006

Mode / Pin	PB (FWD)	PB (REVERSE)	FF	REW	CUE	REV	THREADING UNTHREADING	E-E
1	0	0	0	0	4.6	4.6	4.6	4.6
2	0	0	4.6	4.6	0	0	4.6	4.6
3	0	4.6	0	4.6	0	4.6	0	4.6/0

Note:

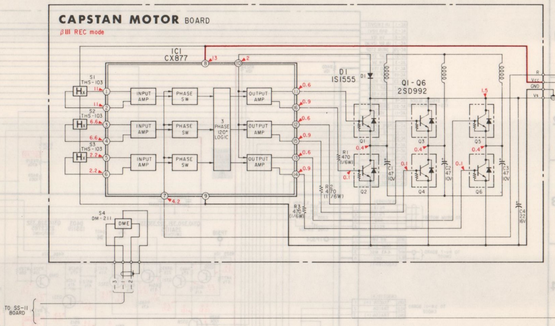
- No mark: REC mode
- ( ) : PB mode
- [ ] : x2 mode
- (( )) : x1 REVERSE mode
- < > : CUE mode
- < > : REV mode
- Marked * is not able to measure the voltage of its position.

When indicating parts by reference number, please include the board name.

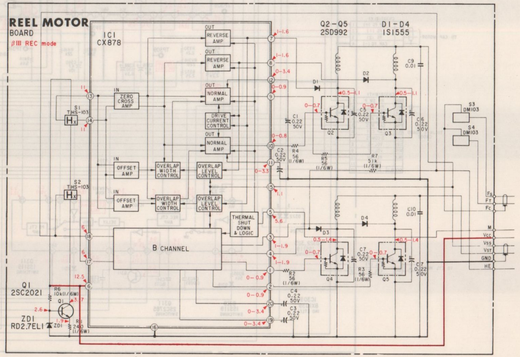


1-13. REEL MOTOR & CAPSTAN MOTOR SCHEMATIC DIAGRAMS

– Ref. No.: CAPSTAN MOTOR BOARD: 9000 series, REEL MOTOR BOARD: 9100 series –



When indicating parts by reference number, please include the board name.



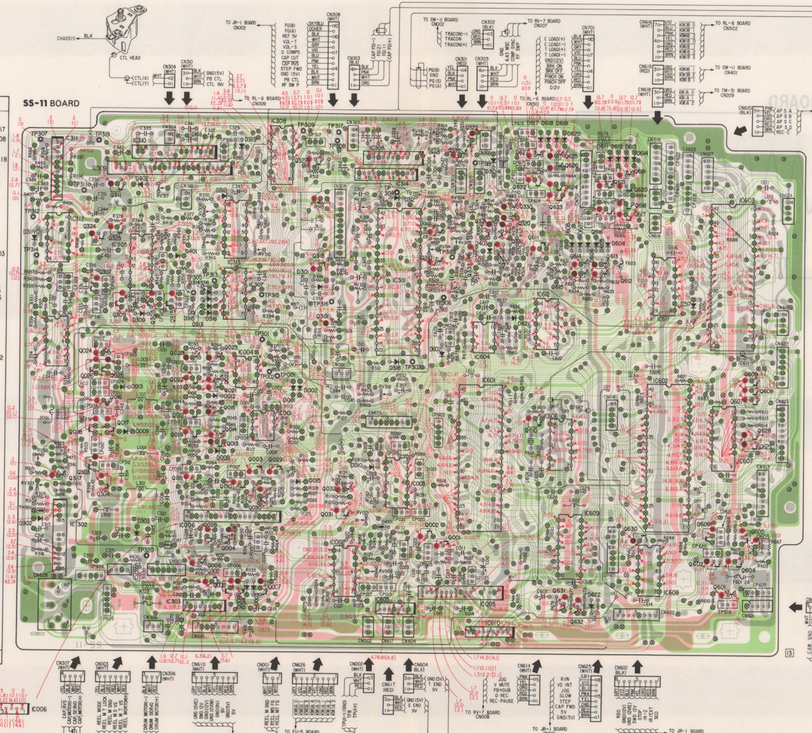
1-14. PRINTED WIRING BOARDS

– Conductor Side –

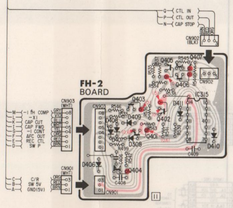
– Ref. No. SS-11 (1/3): 2600 series, SS-11 (2/3): 2000 ~ 2500 series, SS-11 (3/3): 2800 series, CAPSTAN MOTOR BOARD: 9000 series, REEL MOTOR BOARD: 9100 series –

SS-11 REEL CAPSTAN FH-2 (SYSTEM CONTROL CAPS & DRUM SERVO, MOTOR)

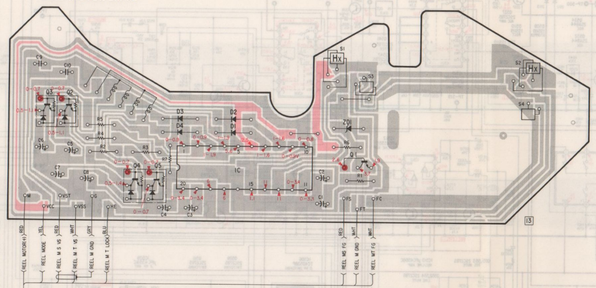
SS-11 BOARD



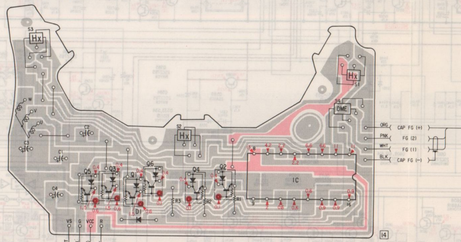
FH-2 BOARD



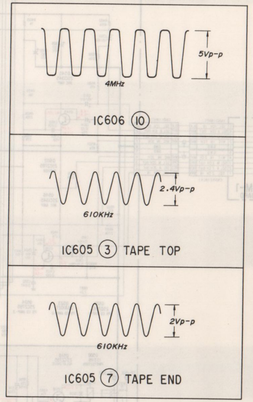
REEL MOTOR BOARD



CAPSTAN MOTOR BOARD



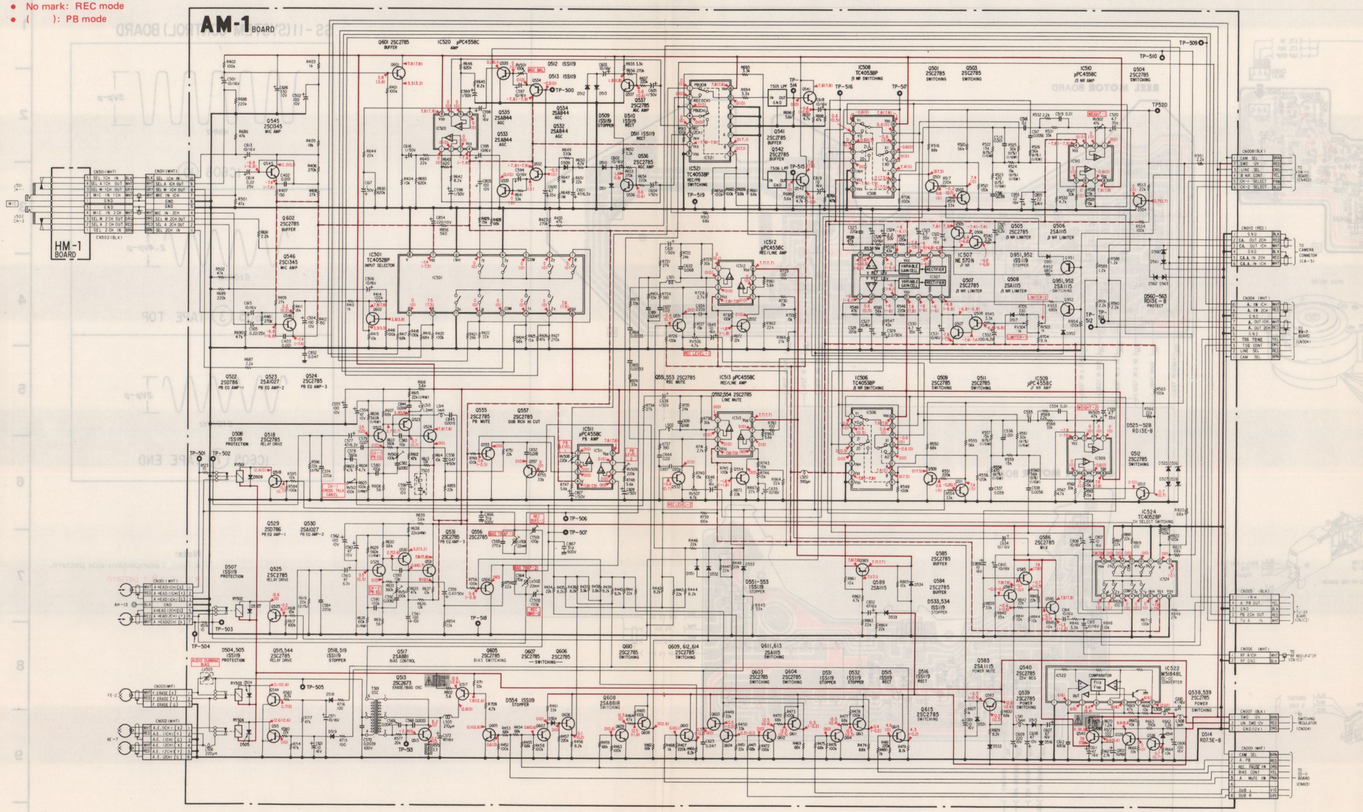
SS-11 (SYSTEM CONTROL) BOARD



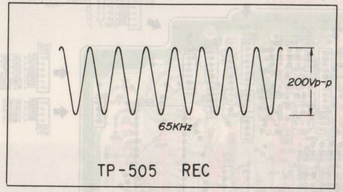
Note:
- : component-side pattern.
- : B + pattern

BUREAU VAN DER STAP
DIESERSTRAAT 17
7201 NA ZUTPHEN
TEL: 05750-15715
K.v.K. ZUTPHEN 43369

Note:
- No mark: REC mode
- ( ): PB mode



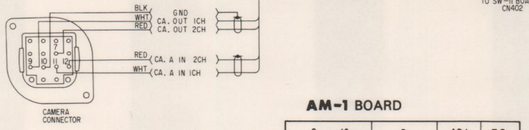
AM-1 BOARD

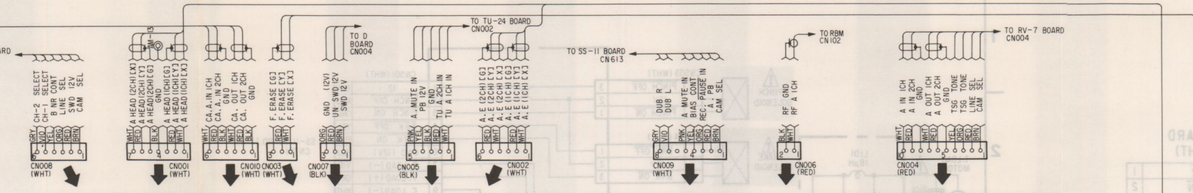


When indicating parts by reference number, please include the board name.

1-16. PRINTED WIRING BOARDS – *Ref. No. 4000 series* –

– Conductor Side –

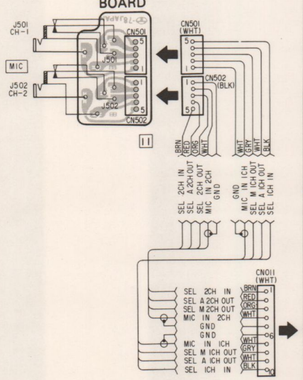


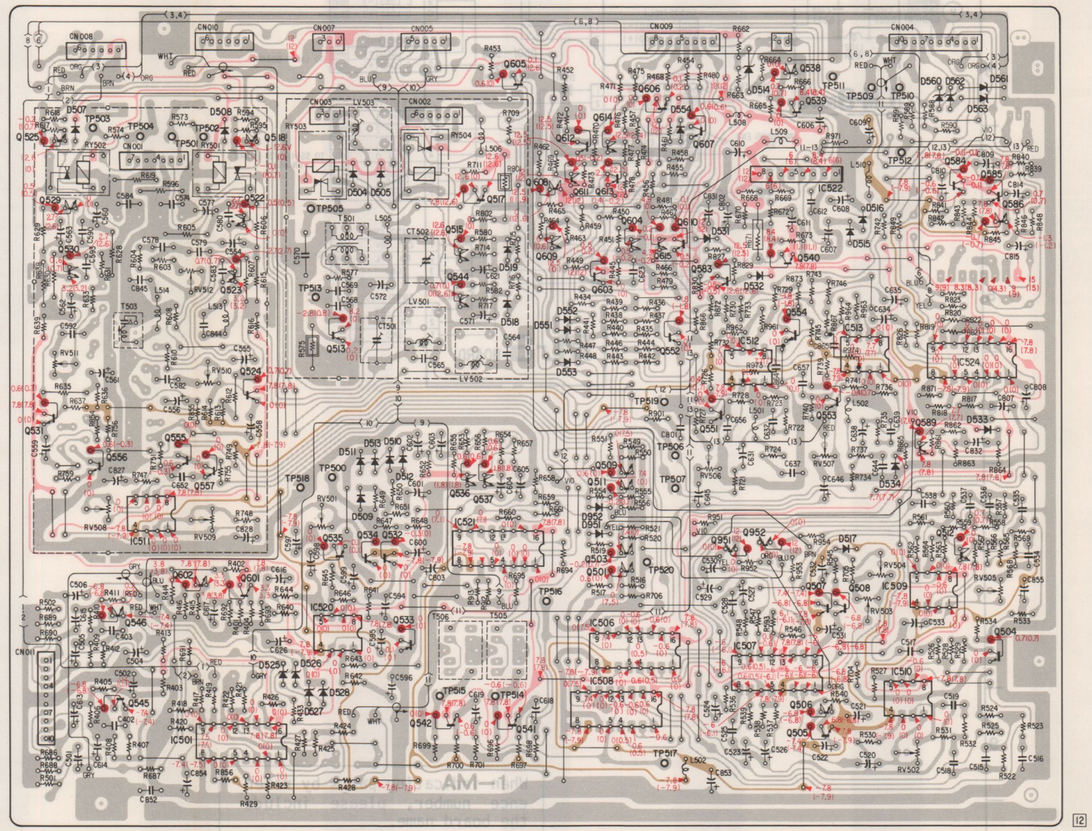


AM-1 BOARD

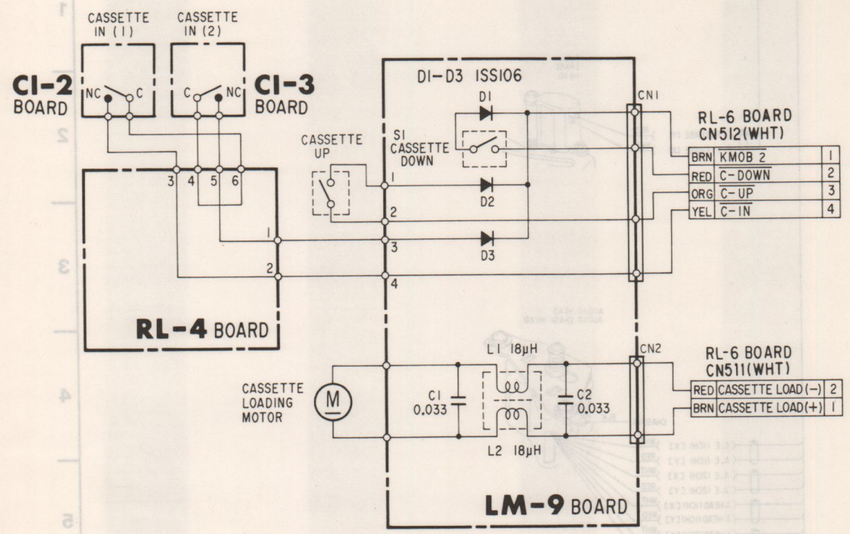
Q, IC	D	ADJ	T.P
538	514		511
605,606	561		509,510
554 539	560,562,563		
607	507,508	LV503	503
525,518	554		504,501
612,614			502
611,613 IC522	504,505		512
608 584			
529 517 585			505
522 586	516		
609,604,615,610	515 531		
515	519	CT502	
530,523 540		RV512	
603,583	532		
544	518		513
513 552 554	552 551	LV501	
		CT501	
IC513, IC524	553	LV502	
IC512		RV511	
524		RV510	
531 551 553			519
	533		
589		RV507	506
555	511,513,510,512		
556 557 509	534	RV506	500 518 507
536,537 511			
	509 952	RV508	
IC511		RV501	
	951	RV509	
952,512	517		520
IC521,503,951			
535,534,532 501		RV504	
602		RV505	
601 IC509		RV503	516
507,508			
546			
IC520			
533			
IC506 504			
IC507	525,526		
	527,528		515,514
545 IC508 IC510			
506			
542,541			
505			
IC501		RV502	517
Q, IC	D	ADJ	T.P

HM-1 BOARD



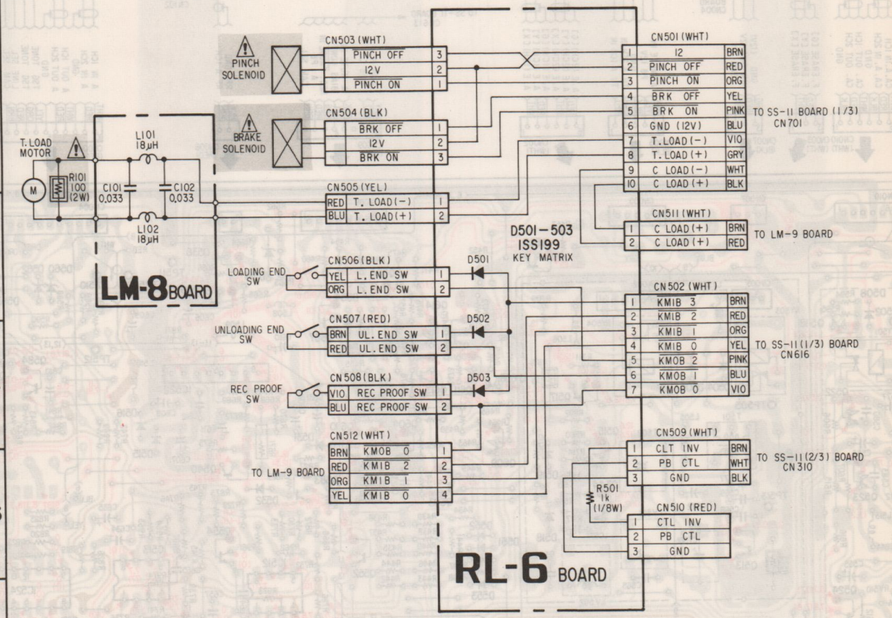


1-17. SCHEMATIC DIAGRAMS — *Ref. No. LM-9 BOARD: 9500 series —*



When indicating parts by reference number, please include the board name.

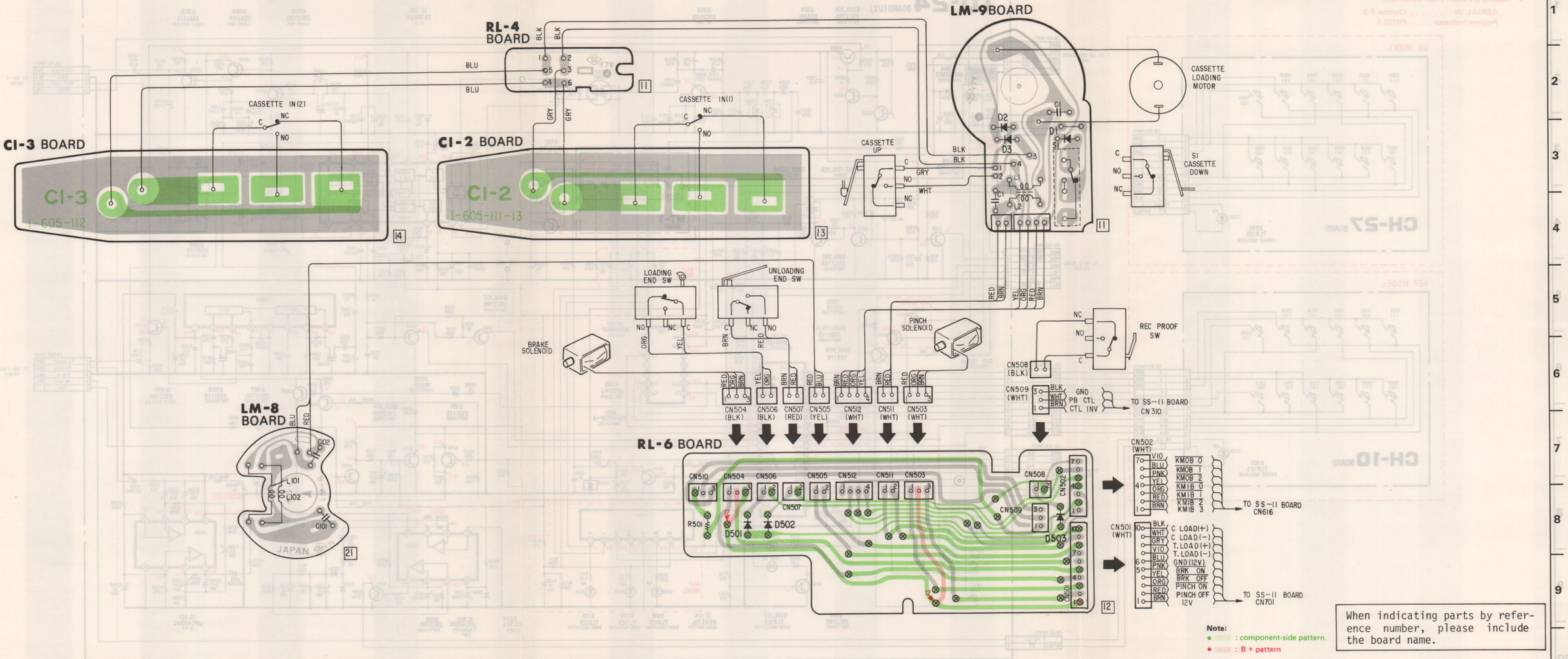
1-18. SCHEMATIC DIAGRAMS — *Ref. No. RL-6 BOARD: 13000 series, LM-8 BOARD: 9300 series —*



When indicating parts by reference number, please include the board name.

1-19. PRINTED WIRING BOARDS — *Ref. No. LM-9 BOARD: 9500 series, RL-6 BOARD: 1300 series, LM-8 BOARD: 9300 series* —

— Conductor side —



Note:
- : component-side pattern.
- : B + pattern

When indicating parts by reference number, please include the board name.

TU-24 (1/2) CH-10 MT-1 (TUNER, VIF, SIF, TUNING CONTROL)

1-20. SCHEMATIC DIAGRAM – *Ref. No. TU-24 BOARD: 5100 ~ 5300 series, CH-10 BOARD: 5500 series, MT-1 BOARD: 8100 series* –

Note:
- No mark: REC mode
- Reading are taken under conditions:
  AERIAL IN . . . . . Channel E-3
  Program indicator . . . . PROG 1

UK MODEL

CH-27 BOARD

AEP MODEL

CH-10 BOARD

TU-24 BOARD (1/2)

MT-1 BOARD

TU-401

IC 001 TA7660P VIF

IC 002 μPC1391H SIF

IC 101 M50118P VS CONTROLLER

IC 102 M56140DP MEMORY

IC 103 μPC574J 55V ZENER

IC 104 M54570L BAND SWITCH

IC 201 μPC4558C BPF

Q001 2SC2785 ACTIVE FILTER

Q002 2SC2009 RF AMP

Q003 2SC2785 VIDEO AMP

Q004 2SA1115 VIDEO AMP

Q005 2SA1115 VIDEO BUFFER

Q006 2SA1115 SWITCHING

Q007 2SC2785 SWITCHING

Q008 2SA1115 SWITCHING

Q009 2SC2785 AUDIO BUFFER

Q101 2SC4039P-4 SWITCHING

Q102 2SC2785 SWITCHING

Q103,104 2SC2785 SWITCHING

Q105 2SA1115 SWITCHING

Q106,107 2SC2785 SWITCHING

Q108 2SC2785 SWITCHING

Q201 2SC2785 SWITCHING

Q301,302 2SC2785 SWITCHING

Q303,304 2SC2785 SWITCHING

Q305 2SA881 SWITCHING

D304 RD24EB2Z 24V ZENER

D204 RD13EB ZENER

D303 RD5.1EB ZENER

D302 ISS119 PROTECTOR

D001 TLR123 STEREO INDICATOR

D101 ISS119 PROTECTOR

D102 ISS119 PROTECTOR

D103,105 ISS119

D109,110,111 2SA1115 SWITCHING

D002 ISS119 PROTECTOR

D201,202,203 ISS119 DETECTOR

D101,107 TLR123 MODE INDICATOR

D108 TLR123 BAND INDICATOR

D109 TLY123 BAND INDICATOR

D110 TLG123 BAND INDICATOR

CN 001 (WHT) TU VIDEO, GND, TEST CONT, TUNE → TO RV-7 CN 001

CN 002 (BLK) TU AUDIO, PB ZCH, G N D, PB 12V, INH → TO AM-1 BOARD CN 005

CN 101 (BLK) → TO JR-1 BOARD CN 202

CN 102 (WHT) → TO TM-3I BOARD CN 202

CN 103 (WHT) → TO TM-3I BOARD CN 204

CN 104 (WHT)

CN 201 (WHT)

CN 501 (WHT)

SW101 AFT UP, SW102 AFT UP, SW103 AFT ON, SW104 S.UP, SW105 AFT ON, SW106 RESET, SW107 S.DN

SW108 ON/OFF TEST SIG

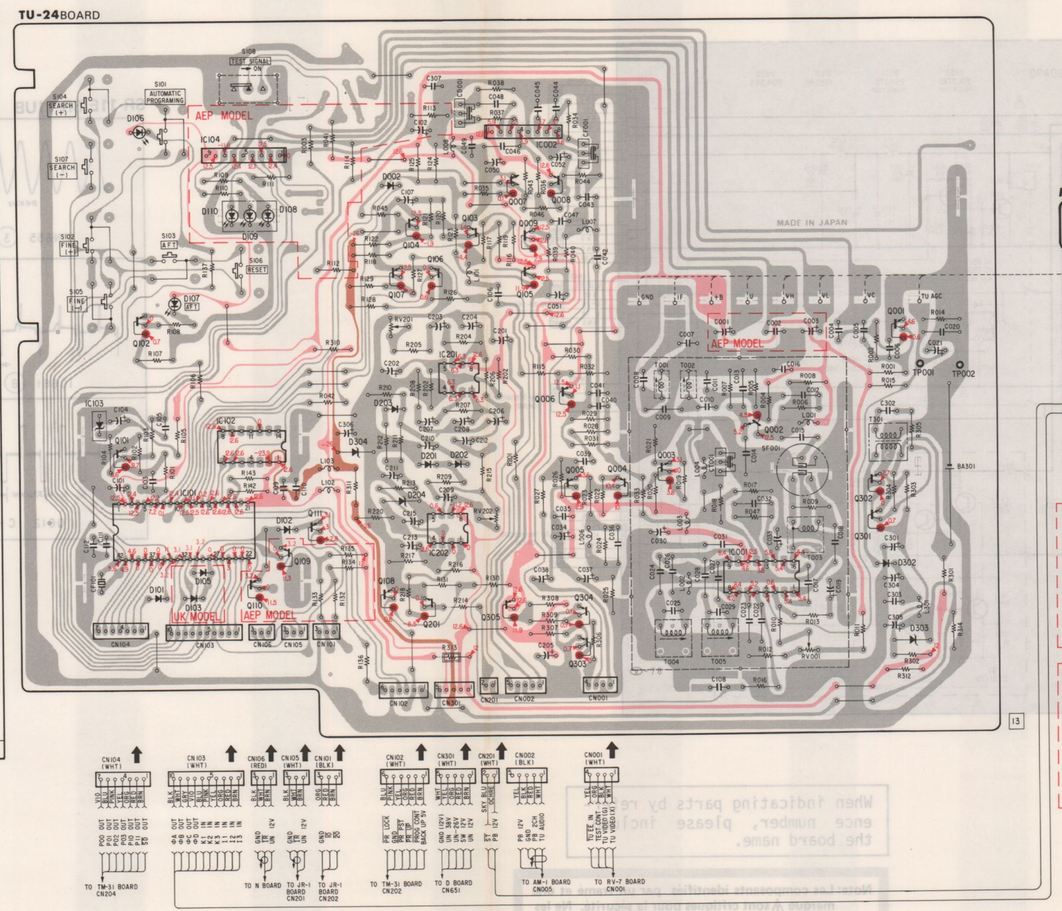
TP-001, TP-002

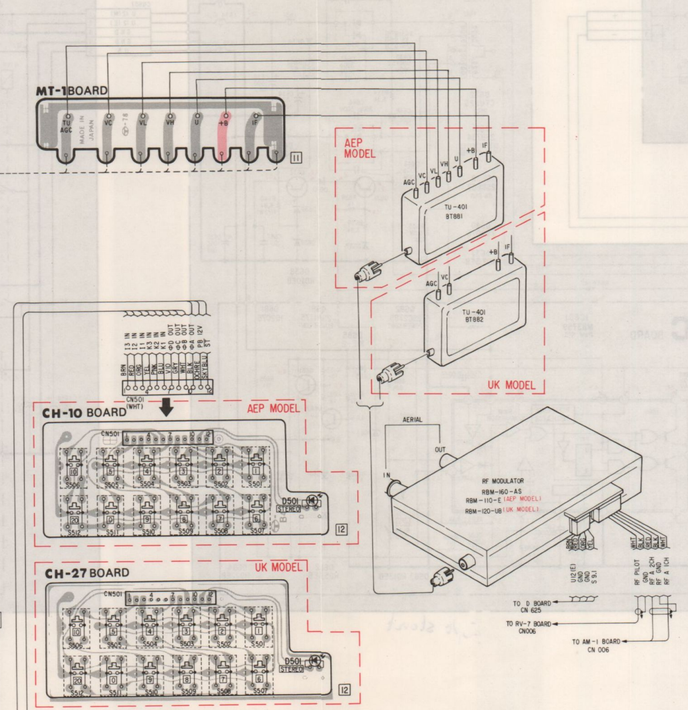
—56— —57— —58—

TU-24(1/2) CH-10 MT-1

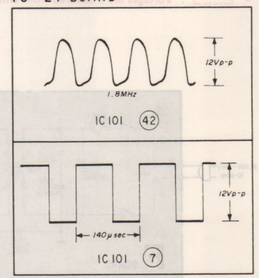
1-21. **PRINTED WIRING BOARD** – *Ref. No. TU-24 BOARD: 5100 ~ 5300 series, CH-10 BOARD: 5500 series, MT-1 BOARD: 8100 series* – – *Conductor Side* –

Q , IC	D	ADJ	TP
IC002	I06		
IC104			
007,008	002		
	I10, I09, I08		
I04			
I03	009		
I07, I06, I05			
	I07		
I02		RV201	
001			001
			002
IC201			
006	203		
IC103			
002			
I01	304		
IC102	201, 202		
003			
005, 004, 302			
	204		
301		RV202	
IC101, III, IC202	I02		
I09			
	I05	302	
I10	IC001		
I08	I01, I03		
201, 305			
304			
303	303	RV001	





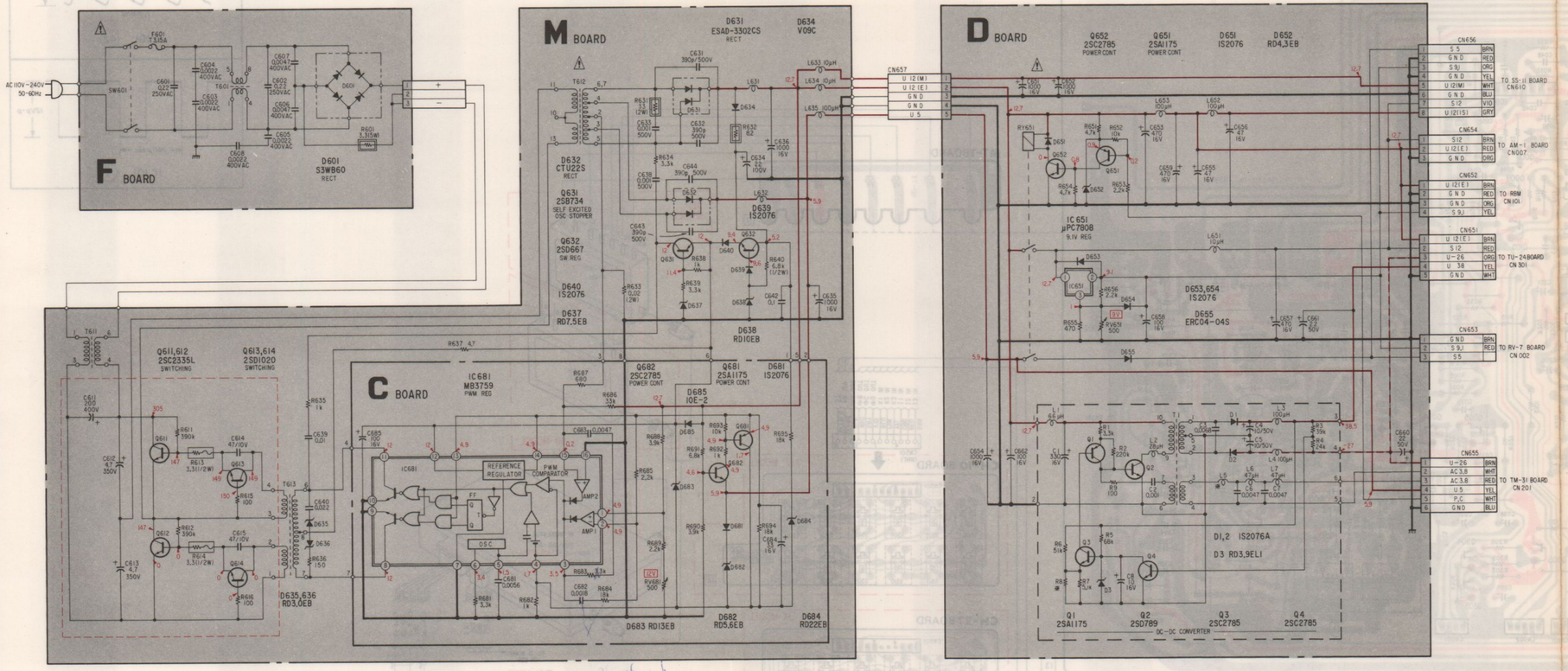
Note:
- : B+ pattern
- : B- pattern



1-22. SCHEMATIC DIAGRAM – *Ref. No. 8600 series* –

Note:

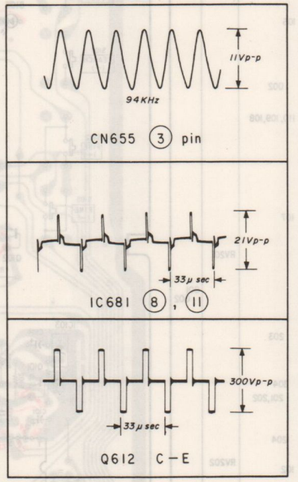
- No mark: E-E mode
- [ ] : Voltages are measured from emitter of Q612.



When indicating parts by reference number, please include the board name.

Note: Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SR-11E/SR-11UB

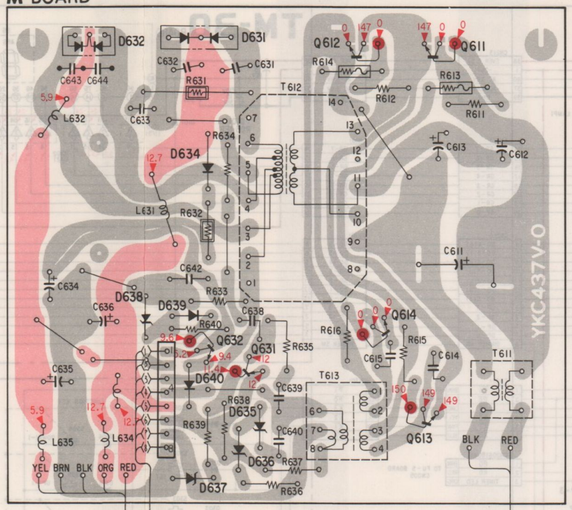


1-23. PRINTED WIRING BOARD — *Ref. No. 8600 series* —

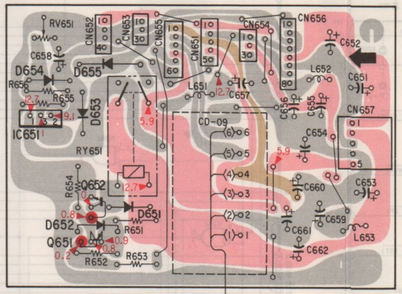
— Conductor Side —

Note:
- : B+ pattern
- : B- pattern

M BOARD



D BOARD



CN655(WHT): BRN, WHT, RED, YEL, WHT, BLU
- U-26
- AC3.8
- AC3.8
- U5
- P.C
- GND

→ TO TM-31 BOARD CN201

CN652(WHT): BRN, RED, ORG, YEL
- U12(E)
- GND
- GND
- S9.1

→ TO RBM CN101

CN655(WHT): BRN, RED, ORG, YEL, WHT
- V12(E)
- S12
- U-26
- U38
- GND

→ TO TU-24 BOARD CN301

CN653(WHT): BRN, RED
- GND
- S9.1

→ TO RV-7 BOARD CN002

CN654(BLK): BRN, RED, ORG
- S12
- U12(E)
- GND

→ TO AM-1 BOARD CN007

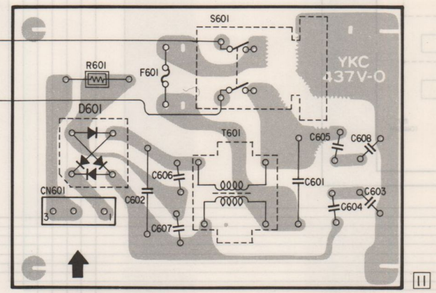
CN656(WHT): BRN, RED, ORG, YEL, WHT, BLU, VIO, GRY
- S5
- GND
- S9.1
- GND
- U12(M)
- GND
- S12
- U12(S)

→ TO SS-11 BOARD CN610

CN657(WHT): 1, 5
- RED
- ORG
- BLK
- BRN
- YEL

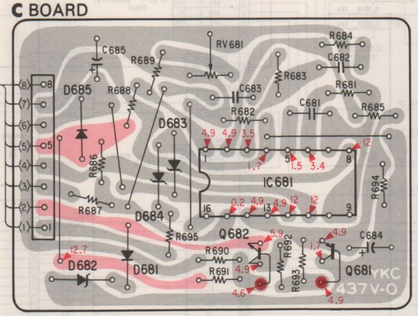
- U12(M)
- U12(E)
- GND
- GND
- U5

F BOARD

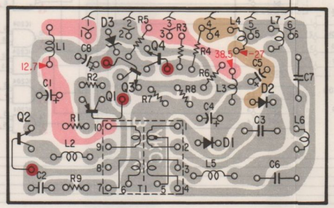


CN601 (WHT): 3, 1
- RED (+)
- BLK (−)

C BOARD

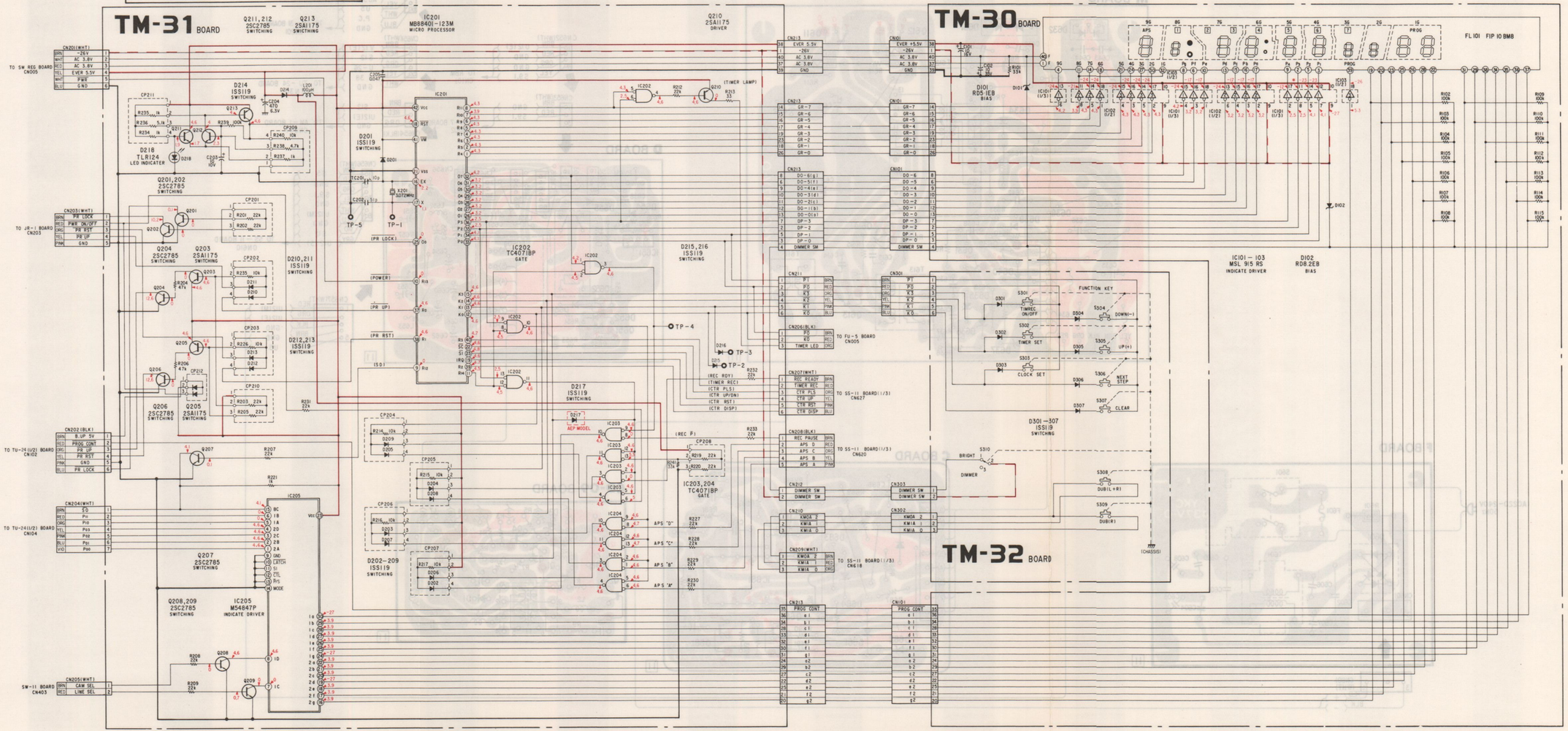


CD-09 BOARD

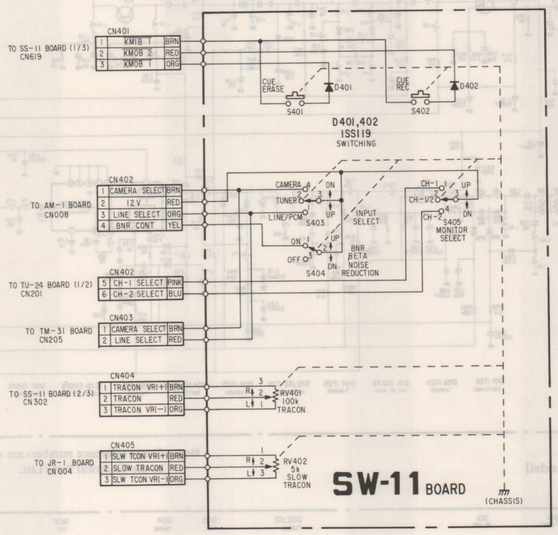


Note:
- No mark: E-E mode
- Marked • is not able to measure the voltage of its position.

When indicating parts by reference number, please include the board name.



1-25. SCHEMATIC DIAGRAM – *Ref. No. 23000 series* –

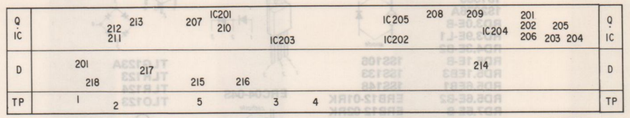


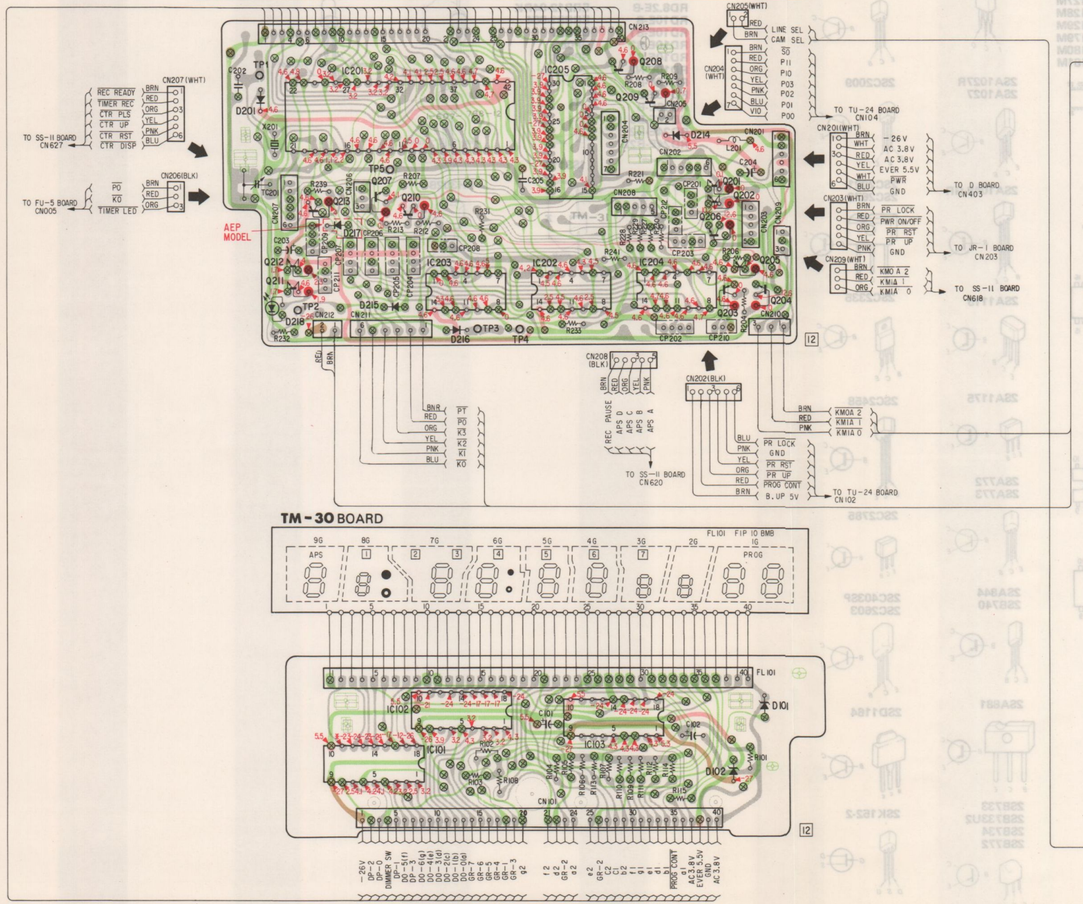
When indicating parts by reference number, please include the board name.

1-26. PRINTED WIRING BOARDS – *Ref. No. TM-30 BOARD: 6100 series, TM-31 BOARD: 6200 series, TM-32 BOARD: 6300 series, SW-11: 23000 series* –

Note:
- : component-side pattern.
- : B+ pattern
- : B- pattern

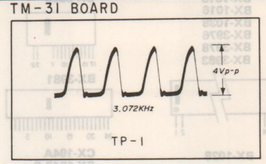
TM-31 BOARD



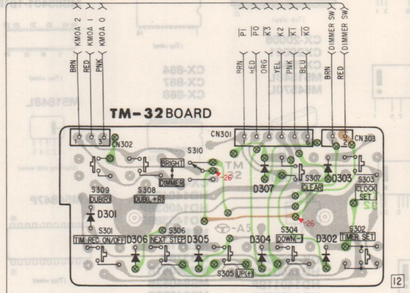


TM-30 BOARD

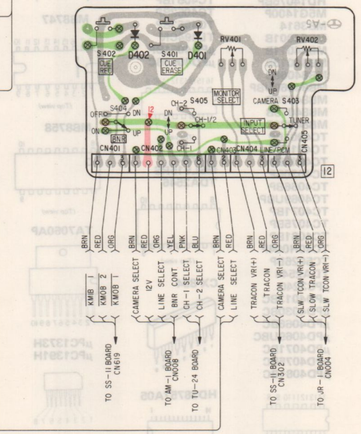
TM-31 BOARD



TM-32 BOARD

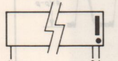


SW-11 BOARD



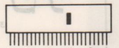
1-27. SEMICONDUCTORS

BX-1013
BX-1016
BX-1038
BX-3976
BX-3978
BX-3983

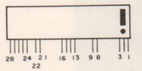


BX-3980

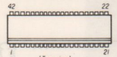
BX-3981



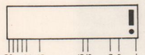
BX-1028



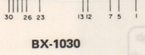
CX-194A
CX-194B-0



CX-20008
CX20061
CX7946
M51848L
M54570L

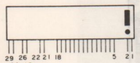


BX-1029



CX20060

BX-1030



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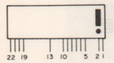


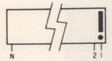
BX-1033
BX-1033A

BX-1034
BX-1034A

BX-1039

BX-1043

BX-1047



CX-7926
CX-7927

CX-863
CX863A
CX-866
CX-866A
CX-869
TDA3800S
μPD652C040

CX-864
CX-867
CX-868

CX-870A
HD14046BP
HD14053BP
HD14538BP
NES70N
NE571N
MB3759
MB84051B
MB84052B
MB84053B
MC14046BCP
MC14538BCP
TA7660P
TC4049BP
TC4051BP
TC4052BP
TC4053BP
TL494CN
μPD4051BP
μPD4053BC

CX-882
MSL915RS
TDA2546

CX-894

HD38757A05

NJM2903D
NJM4558D
μPC393C
μPC4558C

M50118AP
MB88401-123M
MB88401-127M
MB88401-128M
MB88401-129M
MB88401-179M
MB88401-180M
MB88401-181M

M51848L

M54847P

MB3759

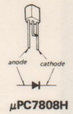
MB8747

MB8758

TA7060AP

μPC1373H
μPC1391H

μPC574J



μPC7808H

2SA1027R
2SA1027

2SA1048-GR

2SA1115

2SA1175

2SA772
2SA773

2SA844
2SB740

2SA881

2SB733
2SB733U2
2SB734
2SB772

2SD773

2SC1345
2SC1474
2SD786
2SD677A
2SD788

2SC2009

2SC2021
2SC2673

2SC2335

2SC2458

2SC2785

2SC403SP
2SC2603

2SD1164

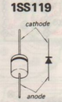
2SK152-2

10E1
10E2
1S1555
1S1585
1S2076A
RD3.0E-B
RD3.9E-L1
RD4.3E-B2
RD5.1E-B
RD5.1EB3
RD5.6EB1
RD5.6E-B2
RD7.5E-B
RD8.2E-B
RD10E-B
RD10E-B1
RD10E-B2
RD10E-B3
RD10E-N2
RD13E-B
RD13E-B1
RD16E-B
RD22E-B3
RD24E-B2
RD24E-B2Z

V09G
U05G

1SS106
1SS133
1SS148
ERB12-01RK
ERB12-02RK
ERB12-04RK
ERB81-004
GP08B
GP08D
GP08G

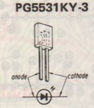
1SS119



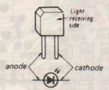
ESAD33-02CS
CTU22S

ERC04-04S

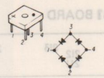
PG5531KY-3



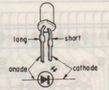
PH302B



S3WB60Z

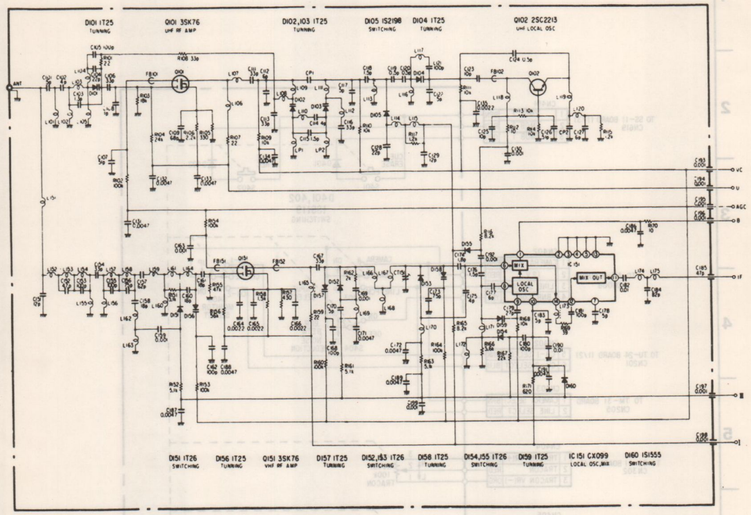


TLG123A
TLR123
TLR124
TLO123



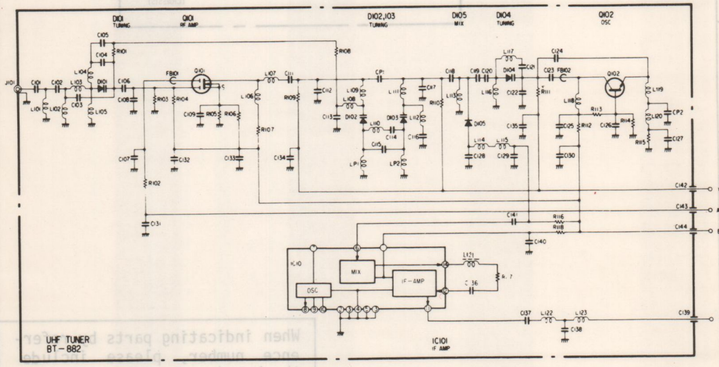
1-28. VHF/UHF TUNER SCHEMATIC DIAGRAMS

- **BT-881 (AEP model)**



Note: Tuner reference numbers are not included in the Electrical Parts List.

- **BT-882 (UK model)**



Note: Tuner reference numbers are not included in the Electrical Parts List.

SECTION 2
EXPLODED VIEWS

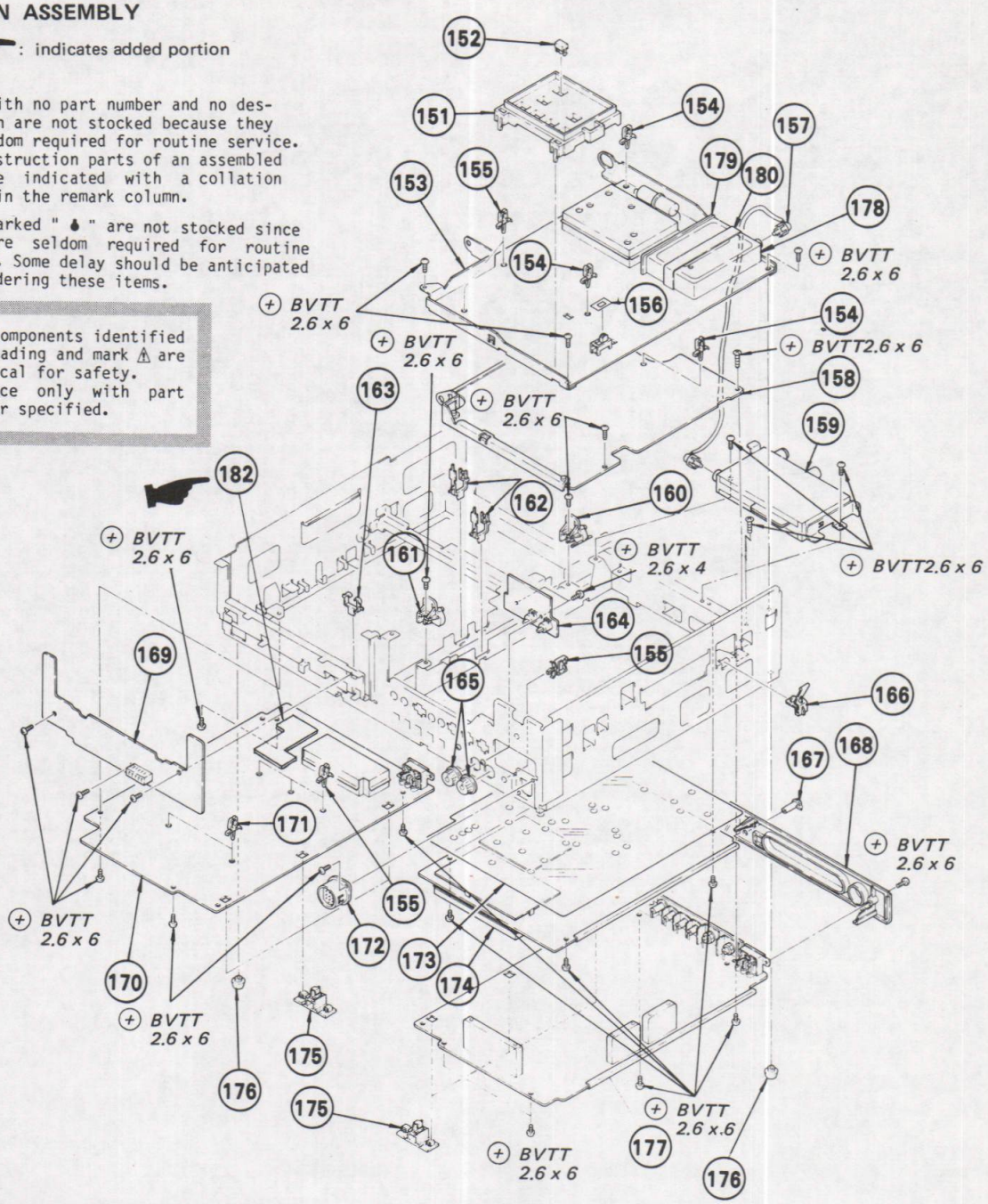
Correct the service manual as shown below.

(1) MAIN ASSEMBLY

: indicates added portion

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

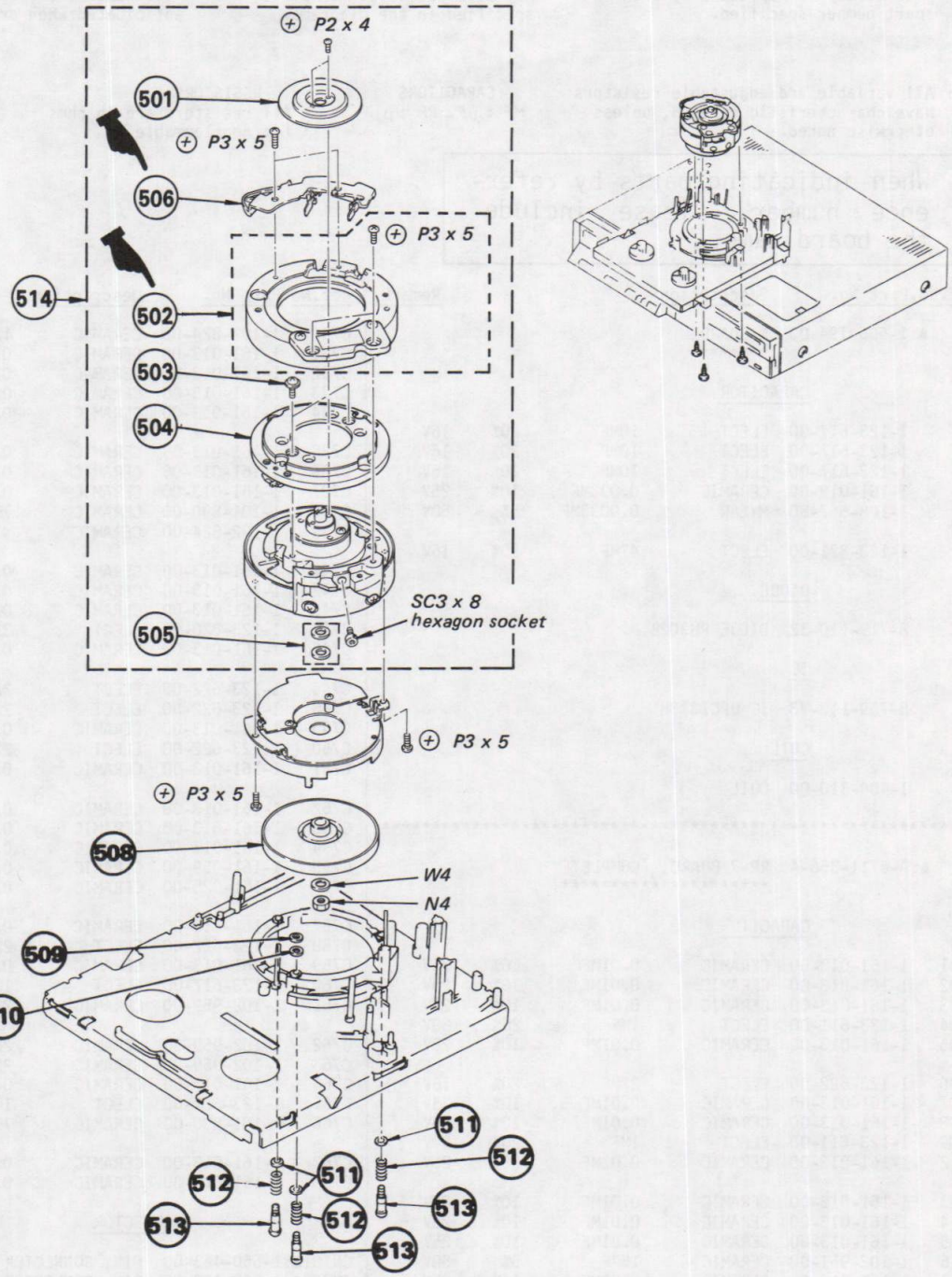


No.	Part No.	Description	Remark
151	A-6734-153-A	PANEL ASSY, PRESET (AEP MODEL)	152
	A-6734-157-A	PANEL ASSY, PRESET (UK MODEL)	152
152	3-662-243-00	BUTTON, PRESET	
153	♦:A-6721-125-A	TU-24 BOARD, COMPLETE (AEP MODEL)	
	♦:A-6721-139-A	TU-24 BOARD, COMPLETE (UK MODEL)	
154	♦:3-644-407-00	CLIP, AC WIRE E	
155	♦:3-655-214-00	CLIP, CABLE	
156	3-662-259-00	CLOTH, MASKING	
157	♦:1-555-716-61	CABLE, PIN	
158	♦:A-6715-154-A	JR-1 BOARD, COMPLETE (AEP MODEL)	
	♦:A-6715-166-A	JR-1 BOARD, COMPLETE (UK MODEL)	
159	⚠.1-464-184-00	MODULATOR, RF (RBM-110-E) (AEP MODEL)	
	⚠.1-464-185-00	MODULATOR, RF (RBM-120-UB) (UK MODEL)	
160	♦:3-674-386-00	HINGE (B), JR	
161	♦:3-674-385-00	HINGE (A), JR	
162	♦:3-701-822-00	HOLDER, WIRE	
163	♦:4-310-385-00	HOLDER, WIRE	
164	♦:1-607-770-00	SW-11 BOARD	

No.	Part No.	Description	Remark
165	3-675-520-00	BUTTON, TRACK CONTROL	
166	♦:4-308-891-00	SUPPORTER, CHASSIS	
167	3-670-149-00	KNOB, V SYNCHRONOUS	
168	3-675-537-00	PANEL, CONNECTOR	
169	♦:A-6717-276-A	FU-5 BOARD, COMPLETE	
170	♦:A-6715-153-A	SS-11 BOARD, COMPLETE	
171	♦:4-309-753-01	CLIP, CABLE	
172	♦:1-933-483-00	HARNESS (CA-5)	
173	♦:3-675-570-00	SHEET, INSULATING	
174	♦:A-6713-135-A	AM-1 BOARD, COMPLETE	
175	♦:3-671-187-00	CLIP, ANCHOR	
176	3-670-155-00	LEG	
177	♦:A-6711-355-A	RV-7 BOARD, COMPLETE	
178	⚠.1-463-350-00	TUNER (BT-881) (AEP MODEL)	
	⚠.1-463-371-00	TUNER (BT-882) (UK MODEL)	
179	♦:1-607-775-00	MT-1 BOARD	
180	♦:3-662-383-00	BAND, RETAINER, TUNER	
182	♦:1-609-854-00	FH-2 BOARD	

(2) DRUM ASSEMBLY

: indicates corrected portion



No.	Part No.	Description	Remark
501	♦:X-3669-106-0	DAMPER ASSY	
502	A-6760-117-A	DRUMSUB ASSY, UPPER	
503	3-669-157-00	BOLT (WASHER) (2.6X8)	
504	A-6762-088-A	DISK ASSY (DSR-21-R)	
505	X-3669-105-0	SPACER BLOCK ASSY	
506	A-6760-066-B	SPRING ASSY	
507	X-2621-204-2	STATOR ASSY, D	
508	X-2621-202-0	ROTOR ASSY, D	
509	♦:3-669-462-00	PLATE, ADJUSTMENT, LIMITER, PINCH	
510	♦:3-669-646-00	SPACER, DRUM	
510	♦:3-669-646-11	SPACER, DRUM	
511	3-669-600-11	WASHER, FLAT (3.5)	
512	3-429-123-00	SPRING	
513	3-669-302-00	SCREW, FITTING	
514	A-6050-139-A	DRUM ASSY (DSH-21A-R)	501–505

SECTION 3
ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.
- Items marked "♣" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
- MF : μF, PF : μμF

RESISTORS
- All resistors are in ohms
- F : nonflammable

COILS
- MMH : mH, UH : μH

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description			Remark
♣:	1-606-794-00	N BOARD *******			
		CAPACITOR			
C1	1-123-617-00	ELECT	10MF	20%	16V
C2	1-123-617-00	ELECT	10MF	20%	16V
C3	1-123-617-00	ELECT	10MF	20%	16V
C4	1-161-019-00	CERAMIC	0.033MF	10%	25V
C5	1-108-567-00	MYLAR	0.0033MF	5%	50V
C6	1-123-821-00	ELECT	47MF	20%	16V
		DIODE			
D1	8-719-110-32	DIODE PH302B			
		IC			
IC1	8-759-113-73	IC UPC1373H			
		COIL			
L1	1-404-310-00	COIL			
**********					
♣:	A-6711-356-A	RP-7 BOARD, COMPLETE **********			
		CAPACITOR			
C701	1-161-013-00	CERAMIC	0.01MF	10%	25V
C702	1-161-013-00	CERAMIC	0.01MF	10%	25V
C703	1-161-013-00	CERAMIC	0.01MF	10%	25V
C704	1-123-611-00	ELECT	1MF	20%	50V
C705	1-161-013-00	CERAMIC	0.01MF	10%	25V
C706	1-123-622-00	ELECT	22MF	20%	16V
C707	1-161-013-00	CERAMIC	0.01MF	10%	25V
C708	1-161-013-00	CERAMIC	0.01MF	10%	25V
C709	1-123-611-00	ELECT	1MF	20%	50V
C712	1-161-013-00	CERAMIC	0.01MF	10%	25V
C713	1-161-013-00	CERAMIC	0.01MF	10%	25V
C714	1-161-013-00	CERAMIC	0.01MF	10%	25V
C715	1-161-013-00	CERAMIC	0.01MF	10%	25V
C716	1-102-951-00	CERAMIC	15PF	5%	50V
C717	1-161-013-00	CERAMIC	0.01MF	10%	25V
C718	1-123-612-00	ELECT	2.2MF	20%	50V
C719	1-161-013-00	CERAMIC	0.01MF	10%	25V
C720	1-123-612-00	ELECT	2.2MF	20%	50V
C721	1-102-951-00	CERAMIC	15PF	5%	50V
C722	1-161-013-00	CERAMIC	0.01MF	10%	25V
C723	1-102-951-00	CERAMIC	15PF	5%	50V
C724	1-123-612-00	ELECT	2.2MF	20%	50V
C725	1-123-612-00	ELECT	2.2MF	20%	50V
C726	1-161-013-00	CERAMIC	0.01MF	10%	25V
C727	1-102-821-00	CERAMIC	360PF	5%	50V
C729	1-123-617-00	ELECT	10MF	20%	16V
C730	1-102-824-00	CERAMIC	470PF	5%	50V
C731	1-161-013-00	CERAMIC	0.01MF	10%	25V
C732	1-161-013-00	CERAMIC	0.01MF	10%	25V
C733	1-161-013-00	CERAMIC	0.01MF	10%	25V
C734	1-161-013-00	CERAMIC	0.01MF	10%	25V
C735	1-161-013-00	CERAMIC	0.01MF	10%	25V
C736	1-161-013-00	CERAMIC	0.01MF	10%	25V
C737	1-161-013-00	CERAMIC	0.01MF	10%	25V
C738	1-101-890-00	CERAMIC	75PF	5%	50V
C739	1-102-824-00	CERAMIC	470PF	5%	50V
C741	1-161-013-00	CERAMIC	0.01MF	10%	25V
C742	1-161-013-00	CERAMIC	0.01MF	10%	25V
C743	1-161-013-00	CERAMIC	0.01MF	10%	25V
C744	1-123-820-00	ELECT	33MF	20%	16V
C745	1-161-013-00	CERAMIC	0.01MF	10%	25V
C746	1-123-622-00	ELECT	22MF	20%	16V
C748	1-123-622-00	ELECT	22MF	20%	16V
C749	1-161-013-00	CERAMIC	0.01MF	10%	25V
C750	1-123-622-00	ELECT	22MF	20%	16V
C751	1-161-013-00	CERAMIC	0.01MF	10%	25V
C752	1-161-013-00	CERAMIC	0.01MF	10%	25V
C753	1-161-013-00	CERAMIC	0.01MF	10%	25V
C754	1-161-013-00	CERAMIC	0.01MF	10%	25V
C755	1-161-059-00	CERAMIC	0.047MF	10%	50V
C756	1-161-025-00	CERAMIC	0.1MF	10%	25V
C757	1-161-013-00	CERAMIC	0.01MF	10%	25V
C758	1-123-622-00	ELECT	22MF	20%	16V
C759	1-161-013-00	CERAMIC	0.01MF	10%	25V
C760	1-123-617-00	ELECT	10MF	20%	16V
C761	1-102-959-00	CERAMIC	22PF	5%	50V
C762	1-102-959-00	CERAMIC	22PF	5%	50V
C763	1-102-959-00	CERAMIC	22PF	5%	50V
C764	1-161-013-00	CERAMIC	0.01MF	10%	25V
C765	1-123-617-00	ELECT	10MF	20%	16V
C766	1-101-890-00	CERAMIC	75PF	5%	50V
C767	1-161-013-00	CERAMIC	0.01MF	10%	25V
C768	1-161-013-00	CERAMIC	0.01MF	10%	25V
		CONNECTOR			
CN701♣:	1-560-463-00	PIN, CONNECTOR 8P			
CN702♣:	1-560-463-00	PIN, CONNECTOR 8P			
CN703♣:	1-560-461-00	PIN, CONNECTOR 5P			
CN704♣:	1-560-464-00	PIN, CONNECTOR 10P			
		DIODE			
D701	=>8-719-901-33	DIODE 1SS133			
D702	=>8-719-901-33	DIODE 1SS133			
D703	=>8-719-901-33	DIODE 1SS133			
		IC			
IC701	=>8-759-906-30	IC CX-863A			

Ref.No.	Part No.	Description	Remark
		COIL	
L701	1-408-421-00	MICRO INDUCTOR 100UH	
L702	1-408-397-00	MICRO INDUCTOR 1UH	
L703	1-408-421-00	MICRO INDUCTOR 100UH	
L704	1-408-397-00	MICRO INDUCTOR 1UH	
L705	1-408-421-00	MICRO INDUCTOR 100UH	
L706	1-408-397-00	MICRO INDUCTOR 1UH	
L707	1-408-423-00	MICRO INDUCTOR 150UH	
L708	1-408-414-00	MICRO INDUCTOR 27UH	
L709	1-408-414-00	MICRO INDUCTOR 27UH	
L710	1-408-414-00	MICRO INDUCTOR 27UH	
L711	1-408-421-00	MICRO INDUCTOR 100UH	
L712	1-408-421-00	MICRO INDUCTOR 100UH	
L713	1-408-423-00	MICRO INDUCTOR 150UH	
L714	1-408-421-00	MICRO INDUCTOR 100UH	
		TRANSISTOR	
Q701	8-765-422-00	TRANSISTOR 2SK152-2	
Q703	8-729-178-54	TRANSISTOR 2SC2785	
Q704	8-729-603-50	TRANSISTOR 2SC403SP	
Q705	8-765-422-00	TRANSISTOR 2SK152-2	
Q706	8-729-178-54	TRANSISTOR 2SC2785	
Q707	8-729-603-50	TRANSISTOR 2SC403SP	
Q708	8-765-422-30	TRANSISTOR 2SK152-2	
Q710	8-729-178-54	TRANSISTOR 2SC2785	
Q711	8-729-178-54	TRANSISTOR 2SC2785	
Q712	8-729-178-54	TRANSISTOR 2SC2785	
Q713	8-729-178-54	TRANSISTOR 2SC2785	
Q714	8-729-603-50	TRANSISTOR 2SC403SP	
Q715	8-729-603-50	TRANSISTOR 2SC403SP	
Q716	8-729-603-50	TRANSISTOR 2SC403SP	
Q717	8-729-603-50	TRANSISTOR 2SC403SP	
Q718	=>8-729-374-02	TRANSISTOR 2SB740	
Q719	8-729-178-54	TRANSISTOR 2SC2785	
		RESISTOR	
R701	1-246-796-00	CARBON 12K 1/8W	
R702	1-246-850-00	CARBON 3.6K 1/8W	
R703	1-246-780-00	CARBON 560 1/8W	
R704	1-246-778-00	CARBON 390 1/8W	
R706	1-246-850-00	CARBON 3.6K 1/8W	
R707	1-246-836-00	CARBON 240 1/8W	
R709	1-246-796-00	CARBON 12K 1/8W	
R710	1-246-780-00	CARBON 560 1/8W	
R712	1-246-850-00	CARBON 3.6K 1/8W	
R713	1-246-778-00	CARBON 390 1/8W	
R716	1-246-850-00	CARBON 3.6K 1/8W	
R717	1-246-836-00	CARBON 240 1/8W	
R718	1-246-796-00	CARBON 12K 1/8W	
R719	1-246-850-00	CARBON 3.6K 1/8W	
R720	1-246-780-00	CARBON 560 1/8W	
R722	1-246-778-00	CARBON 390 1/8W	

Ref.No.	Part No.	Description	Remark
R725	1-246-843-00	CARBON 910 1/8W	
R726	1-246-791-00	CARBON 4.7K 1/8W	
R727	1-246-791-00	CARBON 4.7K 1/8W	
R728	1-246-791-00	CARBON 4.7K 1/8W	
R729	1-246-795-00	CARBON 10K 1/8W	
R730	1-246-846-00	CARBON 1.6K 1/8W	
R731	1-246-785-00	CARBON 1.5K 1/8W	
R732	1-246-795-00	CARBON 10K 1/8W	
R733	1-246-791-00	CARBON 4.7K 1/8W	
R734	1-246-791-00	CARBON 4.7K 1/8W	
R735	1-246-791-00	CARBON 4.7K 1/8W	
R736	1-246-799-00	CARBON 22K 1/8W	
R737	1-246-799-00	CARBON 22K 1/8W	
R738	1-246-775-00	CARBON 220 1/8W	
R740	1-246-783-00	CARBON 1K 1/8W	
R741	1-246-791-00	CARBON 4.7K 1/8W	
R742	1-246-772-00	CARBON 120 1/8W	
R743	1-246-835-00	CARBON 200 1/8W	
R744	1-246-791-00	CARBON 4.7K 1/8W	
R745 ⚠	1-247-031-00	CARBON 27 5% 1/8W	F
R746	1-246-845-00	CARBON 1.3K 1/8W	
R747	1-246-851-00	CARBON 4.3K 1/8W	
R748 ⚠	1-247-031-00	CARBON 27 5% 1/8W	F
R749	1-246-783-00	CARBON 1K 1/8W	
R750	1-246-775-00	CARBON 220 1/8W	
R751	1-246-783-00	CARBON 1K 1/8W	
R752	1-246-853-00	CARBON 6.2K 1/8W	
R753	1-246-853-00	CARBON 6.2K 1/8W	
R754	1-246-783-00	CARBON 1K 1/8W	
R755	1-246-777-00	CARBON 330 1/8W	
R756	1-246-853-00	CARBON 6.2K 1/8W	
R757	1-246-785-00	CARBON 1.5K 1/8W	
R758	1-246-795-00	CARBON 10K 1/8W	
R759	1-246-783-00	CARBON 1K 1/8W	
R760	1-246-797-00	CARBON 15K 1/8W	
R761	1-246-801-00	CARBON 33K 1/8W	
R762	1-246-803-00	CARBON 47K 1/8W	
R763	1-246-803-00	CARBON 47K 1/8W	
		VARIABLE RESISTOR	
RV701	1-226-702-00	RES, ADJ, METAL GLAZE 2.2K	
RV702	1-226-702-00	RES, ADJ, METAL GLAZE 2.2K	
RV703	1-226-702-00	RES, ADJ, METAL GLAZE 2.2K	
RV704	1-226-702-00	RES, ADJ, METAL GLAZE 2.2K	
RV705	1-226-702-00	RES, ADJ, METAL GLAZE 2.2K	
		TRANSFORMER	
T701	1-427-522-00	TRANSFORMER, INPUT OUTPUT	
T702	1-427-521-00	TRANSFORMER	
T703	1-427-521-00	TRANSFORMER	
T704	1-409-352-00	COIL, TRAP	
T705	1-409-353-00	COIL, TRAP	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

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Ref.No.	Part No.	Description			Remark
♦:	A-6711-355-A	RV-7 BORD, COMPLETE **********			
	1-533-162-00	HOLDER, FUSE			
	1-536-723-00	TERMINAL BOARD, CONTROL PANEL			
		FILTER			
BPF001	1-235-098-00	FILTER, BAND PASS			
		CAPACITOR			
C001	1-123-324-00	ELECT	1000MF	20%	16V
C002	1-123-356-00	ELECT	10MF	20%	16V
C003	1-123-356-00	ELECT	10MF	20%	16V
C004	1-123-356-00	ELECT	10MF	20%	16V
C005	1-101-005-00	CERAMIC	0.022MF		50V
C006	1-123-318-00	ELECT	33MF	20%	16V
C007	1-123-318-00	ELECT	33MF	20%	16V
C008	1-101-005-00	CERAMIC	0.022MF		50V
C009	1-101-005-00	CERAMIC	0.022MF		50V
C010	1-102-936-00	CERAMIC	3PF	0.25PF	50V
C011	1-101-888-00	CERAMIC	68PF	5%	50V
C012	1-123-381-00	ELECT	2.2MF	20%	50V
C013	1-102-962-00	CERAMIC	30PF	5%	50V
C014	1-123-330-00	ELECT	22MF	20%	16V
C015	1-101-004-00	CERAMIC	0.01MF		50V
C016	1-123-330-00	ELECT	22MF	20%	16V
C017	1-101-001-00	CERAMIC	0.001MF		50V
C018	1-101-001-00	CERAMIC	0.001MF		50V
C019	1-123-381-00	ELECT	2.2MF	20%	50V
C020	1-123-381-00	ELECT	2.2MF	20%	50V
C021	1-101-006-00	CERAMIC	0.047MF		50V
C022	1-123-328-00	ELECT	4.7MF	20%	25V
C023	1-123-356-00	ELECT	10MF	20%	16V
C024	1-102-965-00	CERAMIC	39PF	5%	50V
C025	1-102-948-00	CERAMIC	11PF	5%	50V
C026	1-102-948-00	CERAMIC	11PF	5%	50V
C027	1-123-318-00	ELECT	33MF	20%	16V
C028	1-123-328-00	ELECT	4.7MF	20%	25V
C029	1-123-318-00	ELECT	33MF	20%	16V
C030	1-123-356-00	ELECT	10MF	20%	16V
C031	1-123-356-00	ELECT	10MF	20%	16V
C032	1-123-328-00	ELECT	4.7MF	20%	25V
C033	1-102-114-00	CERAMIC	470PF	10%	50V
C034	1-101-005-00	CERAMIC	0.022MF		50V
C035	1-102-977-00	CERAMIC	200PF	5%	50V
C036	1-123-318-00	ELECT	33MF	20%	16V
C037	1-102-114-00	CERAMIC	470PF	10%	50V
C038	1-101-059-00	CERAMIC	510PF	5%	50V
C039	1-108-595-00	MYLAR	0.047MF	5%	50V
C040	1-161-063-00	CERAMIC	0.1MF	20%	25V
C041	1-102-973-00	CERAMIC	100PF	5%	50V
C042	1-102-977-00	CERAMIC	200PF	5%	50V
C043	1-123-356-00	ELECT	10MF	20%	16V
C044	1-161-063-00	CERAMIC	0.1MF	20%	25V
C045	1-102-947-00	CERAMIC	10PF	5%	50V
C046	1-123-306-00	ELECT	47MF	20%	10V
C047	1-123-328-00	ELECT	4.7MF	20%	25V
C048	1-101-880-00	CERAMIC	47PF	5%	50V
C049	1-123-318-00	ELECT	33MF	20%	16V
C050	1-123-356-00	ELECT	10MF	20%	16V
C051	1-123-318-00	ELECT	33MF	20%	16V
C052	1-123-318-00	ELECT	33MF	20%	16V
C053	1-123-330-00	ELECT	22MF	20%	16V
C054	1-108-557-00	MYLAR	0.0012MF	5%	50V
C055	1-102-117-00	CERAMIC	820PF	10%	50V
C056	1-101-006-00	CERAMIC	0.047MF		50V
C057	1-102-531-00	CERAMIC	150PF	5%	50V
C058	1-101-005-00	CERAMIC	0.022MF		50V
C059	1-123-318-00	ELECT	33MF	20%	16V
C060	1-123-318-00	ELECT	33MF	20%	16V
C061	1-108-555-00	MYLAR	0.001MF	5%	50V
C062	1-108-555-00	MYLAR	0.001MF	5%	50V
C063	1-102-531-00	CERAMIC	150PF	5%	50V
C064	1-123-380-00	ELECT	1MF	20%	50V
C065	1-101-004-00	CERAMIC	0.01MF		50V
C066	1-101-004-00	CERAMIC	0.01MF		50V
C067	1-101-003-00	CERAMIC	0.0047MF		50V
C068	1-101-006-00	CERAMIC	0.047MF		50V
C069	1-101-001-00	CERAMIC	0.001MF		50V
C070	1-123-356-00	ELECT	10MF	20%	16V
C071	1-101-005-00	CERAMIC	0.022MF		50V
C072	1-123-382-00	ELECT	3.3MF	20%	50V
C073	1-123-380-00	ELECT	1MF	20%	50V
C074	1-123-356-00	ELECT	10MF	20%	25V
C075	1-123-356-00	ELECT	10MF	20%	25V
C076	1-101-004-00	CERAMIC	0.01MF		50V
C077	1-102-110-00	CERAMIC	220PF	10%	50V
C078	1-101-004-00	CERAMIC	0.01MF		50V
C079	1-102-525-00	CERAMIC	68PF	5%	50V
C080	1-102-525-00	CERAMIC	68PF	5%	50V
C081	1-102-953-00	CERAMIC	18PF	5%	50V
C082	1-101-004-00	CERAMIC	0.01MF		50V
C083	1-101-004-00	CERAMIC	0.01MF		50V
C084	1-101-005-00	CERAMIC	0.022MF		50V
C085	1-102-113-00	CERAMIC	390PF	10%	50V
C086	1-101-005-00	CERAMIC	0.022MF		50V
C087	1-123-318-00	ELECT	33MF	20%	16V
C088	1-123-318-00	ELECT	33MF	20%	16V
C089	1-101-005-00	CERAMIC	0.022MF		50V
C090	1-101-004-00	CERAMIC	0.01MF		50V
C091	1-101-004-00	CERAMIC	0.01MF		50V
C092	1-101-004-00	CERAMIC	0.01MF		50V
C093	1-101-005-00	CERAMIC	0.022MF		50V
C094	1-102-511-00	CERAMIC	13PF	5%	50V
C095	1-101-006-00	CERAMIC	0.047MF		50V
C096	1-101-006-00	CERAMIC	0.047MF		50V

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description			Remark
C097	1-123-333-00	ELECT	100MF	20%	16V
C098	1-101-006-00	CERAMIC	0.047MF		50V
C099	1-101-001-00	CERAMIC	0.001MF		50V
C100	1-123-318-00	ELECT	33MF	20%	16V
C101	1-101-006-00	CERAMIC	0.047MF		50V
C102	1-101-006-00	CERAMIC	0.047MF		50V
C103	1-101-001-00	CERAMIC	0.001MF		50V
C104	1-101-005-00	CERAMIC	0.022MF		50V
C105	1-101-001-00	CERAMIC	0.001MF		50V
C106	1-102-512-00	CERAMIC	16PF	5%	50V
C107	1-101-005-00	CERAMIC	0.022MF		50V
C108	1-123-330-00	ELECT	22MF	20%	16V
C109	1-131-341-00	ELECT(SOLID)	0.1MF	10%	25V
C110	1-101-006-00	CERAMIC	0.047MF		50V
C111	1-101-004-00	CERAMIC	0.01MF		50V
C112	1-101-004-00	CERAMIC	0.01MF		50V
C113	1-101-004-00	CERAMIC	0.01MF		50V
C114	1-101-004-00	CERAMIC	0.01MF		50V
C115	1-101-004-00	CERAMIC	0.01MF		50V
C116	1-101-005-00	CERAMIC	0.022MF		50V
C117	1-123-382-00	ELECT	3.3MF	20%	50V
C118	1-102-520-00	CERAMIC	39PF	5%	50V
C120	1-161-063-00	CERAMIC	0.1MF	20%	25V
C121	1-101-006-00	CERAMIC	0.047MF		50V
C122	1-101-006-00	CERAMIC	0.047MF		50V
C123	1-101-006-00	CERAMIC	0.047MF		50V
C124	1-101-004-00	CERAMIC	0.01MF		50V
C125	1-101-004-00	CERAMIC	0.01MF		50V
C126	1-102-960-00	CERAMIC	24PF	5%	50V
C127	1-102-960-00	CERAMIC	24PF	5%	50V
C128	1-101-004-00	CERAMIC	0.01MF		50V
C129	1-161-063-00	CERAMIC	0.1MF	20%	25V
C130	1-101-004-00	CERAMIC	0.01MF		50V
C131	1-123-318-00	ELECT	33MF	20%	16V
C132	1-102-948-00	CERAMIC	11PF	5%	50V
C133	1-101-006-00	CERAMIC	0.047MF		50V
C134	1-102-112-00	CERAMIC	330PF	10%	50V
C135	1-123-328-00	ELECT	4.7MF	20%	25V
C136	1-102-112-00	CERAMIC	330PF	10%	50V
C137	1-102-112-00	CERAMIC	330PF	10%	50V
C138	1-101-005-00	CERAMIC	0.022MF		50V
C140	1-101-004-00	CERAMIC	0.01MF		50V
C141	1-101-005-00	CERAMIC	0.022MF		50V
C142	1-101-005-00	CERAMIC	0.022MF		50V
C143	1-123-318-00	ELECT	33MF	20%	16V
C144	1-123-318-00	ELECT	33MF	20%	16V
C145	1-123-356-00	ELECT	10MF	20%	16V
C146	1-101-006-00	CERAMIC	0.047MF		50V
C147	1-102-511-00	CERAMIC	13PF	5%	50V
C148	1-102-522-00	CERAMIC	51PF	5%	50V
C149	1-102-522-00	CERAMIC	51PF	5%	50V
C150	1-102-511-00	CERAMIC	13PF	5%	50V

Ref.No.	Part No.	Description			Remark
C151	1-101-005-00	CERAMIC	0.022MF		50V
C152	1-123-328-00	ELECT	4.7MF	20%	25V
C153	1-101-005-00	CERAMIC	0.022MF		50V
C154	1-123-318-00	ELECT	33MF	20%	16V
C155	1-102-529-00	CERAMIC	100PF	5%	50V
C156	1-123-328-00	ELECT	4.7MF	20%	25V
C157	1-101-005-00	CERAMIC	0.022MF		50V
C158	1-101-005-00	CERAMIC	0.022MF		50V
C159	1-123-318-00	ELECT	33MF	20%	16V
C160	1-101-005-00	CERAMIC	0.022MF		50V
C161	1-123-318-00	ELECT	33MF	20%	16V
C162	1-102-960-00	CERAMIC	24PF	5%	50V
C163	1-101-004-00	CERAMIC	0.01MF		50V
C164	1-123-318-00	ELECT	33MF	20%	16V
C165	1-101-005-00	CERAMIC	0.022MF		50V
C166	1-101-006-00	CERAMIC	0.047MF		50V
C167	1-101-884-00	CERAMIC	56PF	5%	50V
C168	1-102-937-00	CERAMIC	4PF	0.25PF	50V
C169	1-101-004-00	CERAMIC	0.01MF		50V
C170	1-101-004-00	CERAMIC	0.01MF		50V
C171	1-123-380-00	ELECT	1MF	20%	50V
C172	1-123-328-00	ELECT	4.7MF	20%	25V
C173	1-123-328-00	ELECT	4.7MF	20%	25V
C174	1-101-004-00	CERAMIC	0.01MF		50V
C178	1-123-328-00	ELECT	4.7MF	20%	25V
C179	1-101-006-00	CERAMIC	0.047MF		50V
C180	1-123-330-00	ELECT	22MF	20%	16V
C181	1-101-004-00	CERAMIC	0.01MF		50V
C182	1-161-063-00	CERAMIC	0.1MF	20%	25V
C183	1-161-063-00	CERAMIC	0.1MF	20%	25V
C184	1-123-333-00	ELECT	100MF	20%	16V
C185	1-123-311-00	ELECT	1000MF	20%	10V
C186	1-123-356-00	ELECT	10MF	20%	16V
C187	1-102-821-00	CERAMIC	360PF	5%	50V
C188	1-123-311-00	ELECT	1000MF	20%	10V
C189	1-123-311-00	ELECT	1000MF	20%	10V
C190	1-123-319-00	ELECT	47MF	20%	16V
C191	1-161-051-00	CERAMIC	0.01MF	10%	50V
C192	1-161-051-00	CERAMIC	0.01MF	10%	50V
C195	1-101-004-00	CERAMIC	0.01MF		50V
C196	1-123-321-00	ELECT	220μ	20%	16V

FILTER

CF001	1-527-874-00	FILTER, CERAMIC
CF002	1-527-875-00	FILTER, CERAMIC
CF003	1-527-849-00	FILTER, CERAMIC

CONNECTOR

CN001♣:	1-560-460-00	PIN, CONNECTOR 4P
CN002♣:	1-560-459-00	PIN, CONNECTOR 3P
CN003♣:	1-560-460-00	PIN, CONNECTOR 4P
CN004♣:	1-560-464-00	PIN, CONNECTOR 10P
CN005♣:	1-560-463-00	PIN, CONNECTOR 8P
CN006♣:	1-560-455-00	PIN, CONNECTOR 2P

When indicating parts by reference number, please include the board name.

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Ref.No.	Part No.	Description	Remark
CN007♣	1-560-460-00	PIN, CONNECTOR 4P	
CN008♣	1-560-461-00	PIN, CONNECTOR 5P	
CN009♣	1-560-470-00	PIN, CONNECTOR 8P	
CN010♣	1-560-470-00	PIN, CONNECTOR 8P	
CN011	1-561-468-00	SOCKET, CONNECTOR (DIN8P)	
		TRIMMER	
CV001	1-141-275-00	CAP, TRIMMER	
		DIODE	
D001	8-719-901-33	DIODE 1SS133	
D002	8-719-901-33	DIODE 1SS133	
D003	8-719-901-33	DIODE 1SS133	
D004	8-719-100-56	DIODE RD10EB1	
D005	8-719-100-56	DIODE RD10EB1	
D008	8-719-901-33	DIODE 1SS133	
D009	8-719-901-33	DIODE 1SS133	
D010	8-719-901-33	DIODE 1SS133	
D011	8-719-901-33	DIODE 1SS133	
D012	8-719-901-33	DIODE 1SS133	
D013	8-719-901-33	DIODE 1SS133	
D014	8-719-901-33	DIODE 1SS133	
D015	8-719-901-33	DIODE 1SS133	
D016	8-719-901-33	DIODE 1SS133	
D017	8-719-901-33	DIODE 1SS133	
D018	8-719-901-33	DIODE 1SS133	
D019	8-719-901-33	DIODE 1SS133	
D020	8-719-901-33	DIODE 1SS133	
D021	8-719-901-33	DIODE 1SS133	
D022	8-719-901-33	DIODE 1SS133	
D024	8-719-100-34	DIODE RD5.6EB1	
D023	8-719-100-56	DIODE RD10EB1	
		DELAY LINE	
DL001	1-415-273-00	DELAY LINE (1H)	
DL002	1-415-198-00	DELAY LINE (1H)	
▬DL003	1-415-282-00	DELAY LINE	
		FUSE	
F001 ⚠	1-532-279-00	FUSE, TIME LAG T500MMA	
		IC	
IC001	8-759-208-94	IC CX-894	
IC002	8-758-661-00	IC CX-866A	
IC003	8-759-208-67	IC CX-867	
IC004	8-741-102-80	IC BX-1028	
IC005	8-741-102-90	IC BX-1029	
IC006	8-741-103-00	IC BX-1030	
IC007	8-759-240-69	IC TC4069UBP	
IC008	8-758-690-00	IC CX-869	
IC009	8-759-208-94	IC CX-894	
IC010	8-752-000-80	IC CX20008	

Ref.No.	Part No.	Description	Remark
IC011	8-759-600-08	IC CX-870A	
IC012	8-759-608-82	IC CX-882	
IC013	8-759-919-05	IC CX-7905A	
IC014	8-759-200-60	IC TA7060AP	
IC015	8-759-608-64	IC CX-864	
IC016	=>8-749-910-33	IC BX-1033A	
IC017	=>8-749-910-34	IC BX-1034A	
IC018	8-741-103-20	IC BX-1032	
IC019	8-759-908-68	IC CX-868	
IC020	8-759-979-26	IC CX-7926	
IC021	8-759-240-53	IC TC4053BP	
		COIL	
L001	1-408-397-00	MICRO INDUCTOR 1UH	
L002	1-408-397-00	MICRO INDUCTOR 1UH	
L003	1-407-500-31	MICRO INDUCTOR 4.7MMH	
L004	1-408-427-00	MICRO INDUCTOR 330UH	
L005	1-408-420-00	MICRO INDUCTOR 82UH	
L006	1-407-503-31	MICRO INDUCTOR 8.2MMH	
L007	1-408-408-00	MICRO INDUCTOR 8.2UH	
L008	1-408-429-00	MICRO INDUCTOR 470UH	
L009	1-407-503-31	MICRO INDUCTOR 8.2MMH	
L010	1-408-429-00	MICRO INDUCTOR 470UH	
L011	1-407-503-31	MICRO INDUCTOR 8.2MMH	
L012	1-408-426-00	MICRO INDUCTOR 270UH	
L013	1-408-412-00	MICRO INDUCTOR 18UH	
L014	1-408-421-00	MICRO INDUCTOR 100UH	
L015	1-408-421-00	MICRO INDUCTOR 100UH	
L016	1-408-415-00	MICRO INDUCTOR 33UH	
L018	1-408-415-00	MICRO INDUCTOR 33UH	
L020	1-408-422-00	MICRO INDUCTOR 120UH	
L021	1-408-424-00	MICRO INDUCTOR 180UH	
L022	1-408-422-00	MICRO INDUCTOR 120UH	
L023	1-408-421-00	MICRO INDUCTOR 100UH	
L024	1-407-496-31	MICRO INDUCTOR 2.2MMH	
L025	1-408-413-00	MICRO INDUCTOR 22UH	
		FILTER	
LPF001	1-235-097-00	FILTER, LOW PASS	
		VARIABLE COIL	
LV001	1-408-512-00	COIL (VARIABLE)	
		TRANSISTOR	
Q001	=>8-729-245-83	TRANSISTOR 2SC2458	
Q002	=>8-729-245-83	TRANSISTOR 2SC2458	
Q003	=>8-729-245-83	TRANSISTOR 2SC2458	
Q004	=>8-729-245-83	TRANSISTOR 2SC2458	
Q005	8-729-117-54	TRANSISTOR 2SA1175	
Q006	=>8-729-245-83	TRANSISTOR 2SC2458	
Q007	=>8-729-245-83	TRANSISTOR 2SC2458	
Q008	=>8-729-245-83	TRANSISTOR 2SC2458	
Q009	8-729-603-50	TRANSISTOR 2SC403SP	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description	Remark
Q010	8-729-603-50	TRANSISTOR 2SC403SP	
Q011	8-729-603-50	TRANSISTOR 2SC403SP	
Q012	8-729-603-50	TRANSISTOR 2SC403SP	
Q013	=>8-729-245-83	TRANSISTOR 2SC2458	
Q014	=>8-729-245-83	TRANSISTOR 2SC2458	
Q015	=>8-729-245-83	TRANSISTOR 2SC2458	
Q016	8-729-603-50	TRANSISTOR 2SC403SP	
Q017	=>8-729-245-83	TRANSISTOR 2SC2458	
Q018	=>8-729-374-02	TRANSISTOR 2SB740	
Q019	=>8-729-245-83	TRANSISTOR 2SC2458	
Q020	=>8-729-245-83	TRANSISTOR 2SC2458	
Q021	=>8-729-245-83	TRANSISTOR 2SC2458	
Q022	=>8-729-245-83	TRANSISTOR 2SC2458	
Q023	=>8-729-245-83	TRANSISTOR 2SC2458	
Q024	=>8-729-245-83	TRANSISTOR 2SC2458	
Q025	=>8-729-245-83	TRANSISTOR 2SC2458	
Q026	8-729-117-54	TRANSISTOR 2SA1175	
Q027	8-729-117-54	TRANSISTOR 2SA1175	

RESISTOR

Ref.No.	Part No.	Description		Remark
R001	1-246-830-00	CARBON	75	1/8W
R002	1-246-803-00	CARBON	47K	1/8W
R003	1-246-830-00	CARBON	75	1/8W
R004	1-246-830-00	CARBON	75	1/8W
R005	1-246-802-00	CARBON	39K	1/8W
R006	1-246-802-00	CARBON	39K	1/8W
R007	1-246-792-00	CARBON	5.6K	1/8W
R008	1-246-844-00	CARBON	1.1K	1/8W
R009	1-246-844-00	CARBON	1.1K	1/8W
R010	1-246-783-00	CARBON	1K	1/8W
R011	1-246-801-00	CARBON	33K	1/8W
R012	1-246-803-00	CARBON	47K	1/8W
R013	1-246-833-00	CARBON	130	1/8W
R014	1-246-833-00	CARBON	130	1/8W
R015	1-246-783-00	CARBON	1K	1/8W
R016	1-246-783-00	CARBON	1K	1/8W
R017	1-246-843-00	CARBON	910	1/8W
R018	1-246-783-00	CARBON	1K	1/8W
R019	1-246-791-00	CARBON	4.7K	1/8W
R020	1-246-842-00	CARBON	750	1/8W
R021	1-246-834-00	CARBON	160	1/8W
R022	1-246-791-00	CARBON	4.7K	1/8W
R023	1-246-783-00	CARBON	1K	1/8W
R024	1-246-851-00	CARBON	4.3K	1/8W
R025	1-246-842-00	CARBON	750	1/8W
R026	1-246-797-00	CARBON	15K	1/8W
R027	1-246-805-00	CARBON	68K	1/8W
R028	1-246-783-00	CARBON	1K	1/8W
R029	1-246-787-00	CARBON	2.2K	1/8W
R030	1-246-807-00	CARBON	100K	1/8W
R031	1-246-869-00	CARBON	130K	1/8W
R032	1-247-049-00	CARBON	470K	1/8W
R033	1-246-796-00	CARBON	12K	1/8W
R034	1-246-802-00	CARBON	39K	1/8W
R035	1-246-867-00	CARBON	91K	1/8W
R036	1-246-809-00	CARBON	150K	1/8W
R037	1-246-807-00	CARBON	100K	1/8W
R038	1-246-803-00	CARBON	47K	1/8W
R039	1-246-799-00	CARBON	22K	1/8W
R040	1-246-797-00	CARBON	15K	1/8W
R041	1-246-795-00	CARBON	10K	1/8W
R042	1-246-791-00	CARBON	4.7K	1/8W
R043	1-246-847-00	CARBON	2K	1/8W
R045	1-246-788-00	CARBON	2.7K	1/8W
R046	1-246-852-00	CARBON	5.1K	1/8W
R047	1-246-793-00	CARBON	6.8K	1/8W
R048	1-246-788-00	CARBON	2.7K	1/8W
R049	1-246-777-00	CARBON	330	1/8W
R050	1-246-799-00	CARBON	22K	1/8W
R051	1-246-795-00	CARBON	10K	1/8W
R052	1-246-842-00	CARBON	750	1/8W
R053	1-246-795-00	CARBON	10K	1/8W
R054	1-246-788-00	CARBON	2.7K	1/8W
R055	1-246-855-00	CARBON	9.1K	1/8W
R056	1-246-795-00	CARBON	10K	1/8W
R057	1-246-800-00	CARBON	27K	1/8W
R058	1-246-861-00	CARBON	30K	1/8W
R059	1-246-858-00	CARBON	16K	1/8W
R060	1-246-779-00	CARBON	470	1/8W
R061	1-246-779-00	CARBON	470	1/8W
R062	1-246-783-00	CARBON	1K	1/8W
R063	1-246-772-00	CARBON	120	1/8W
R064	1-246-854-00	CARBON	7.5K	1/8W
R065	1-246-787-00	CARBON	2.2K	1/8W
R066	1-246-789-00	CARBON	3.3K	1/8W
R067	1-246-795-00	CARBON	10K	1/8W
R068	1-246-803-00	CARBON	47K	1/8W
R069	1-246-804-00	CARBON	56K	1/8W
R070	1-246-804-00	CARBON	56K	1/8W
R071	1-246-810-00	CARBON	180K	1/8W
R072	1-246-800-00	CARBON	27K	1/8W
R073	1-246-863-00	CARBON	43K	1/8W
R074	1-246-783-00	CARBON	1K	1/8W
R075	1-246-785-00	CARBON	1.5K	1/8W
R076	1-246-783-00	CARBON	1K	1/8W
R077	1-246-785-00	CARBON	1.5K	1/8W
R078	1-246-799-00	CARBON	22K	1/8W
R079	1-246-791-00	CARBON	4.7K	1/8W
R080	1-246-778-00	CARBON	390	1/8W
R081	1-246-787-00	CARBON	2.2K	1/8W
R082	1-246-788-00	CARBON	2.7K	1/8W
R083	1-246-783-00	CARBON	1K	1/8W
R084	1-246-778-00	CARBON	390	1/8W
R085	1-246-778-00	CARBON	390	1/8W
R086	1-246-778-00	CARBON	390	1/8W
R087	1-246-778-00	CARBON	390	1/8W
R088	1-246-778-00	CARBON	390	1/8W

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description			Remark
R089	1-246-787-00	CARBON	2.2K	1/8W	
R090	1-246-787-00	CARBON	2.2K	1/8W	
R091	1-246-804-00	CARBON	56K	1/8W	
R092	1-246-791-00	CARBON	4.7K	1/8W	
R093	1-246-783-00	CARBON	1K	1/8W	
R094	1-246-804-00	CARBON	56K	1/8W	
R095	1-246-803-00	CARBON	47K	1/8W	
R096	1-246-803-00	CARBON	47K	1/8W	
R097	1-246-799-00	CARBON	22K	1/8W	
R098	1-246-799-00	CARBON	22K	1/8W	
R099	1-246-799-00	CARBON	22K	1/8W	
R100	1-246-803-00	CARBON	47K	1/8W	
R101	1-246-795-00	CARBON	10K	1/8W	
R102	1-246-802-00	CARBON	39K	1/8W	
R103	1-246-791-00	CARBON	4.7K	1/8W	
R104	1-246-783-00	CARBON	1K	1/8W	
R105	1-246-783-00	CARBON	1K	1/8W	
R106	1-246-860-00	CARBON	24K	1/8W	
R107	1-246-783-00	CARBON	1K	1/8W	
R109	1-246-835-00	CARBON	200	1/8W	
R110	1-246-783-00	CARBON	1K	1/8W	
R111	1-246-848-00	CARBON	2.4K	1/8W	
R112	1-246-783-00	CARBON	1K	1/8W	
R113	1-246-857-00	CARBON	13K	1/8W	
R114	1-246-799-00	CARBON	22K	1/8W	
R115	1-246-849-00	CARBON	3K	1/8W	
R116	1-246-859-00	CARBON	20K	1/8W	
R117	1-246-807-00	CARBON	100K	1/8W	
R118	1-246-807-00	CARBON	100K	1/8W	
R120	1-246-787-00	CARBON	2.2K	1/8W	
R121	1-246-803-00	CARBON	47K	1/8W	
R123	1-246-847-00	CARBON	2K	1/8W	
R124	1-246-777-00	CARBON	330	1/8W	
R125	1-246-850-00	CARBON	3.6K	1/8W	
R126	1-246-805-00	CARBON	68K	1/8W	
R127	1-246-786-00	CARBON	1.8K	1/8W	
R128	1-246-801-00	CARBON	33K	1/8W	
R129	1-246-782-00	CARBON	820	1/8W	
R130	1-246-782-00	CARBON	820	1/8W	
R131	1-246-783-00	CARBON	1K	1/8W	
R132	1-246-783-00	CARBON	1K	1/8W	
R133	1-246-804-00	CARBON	56K	1/8W	
R134	1-246-809-00	CARBON	150K	1/8W	
R135	1-246-801-00	CARBON	33K	1/8W	
R136	1-246-802-00	CARBON	39K	1/8W	
R137	1-246-786-00	CARBON	1.8K	1/8W	
R138	1-246-802-00	CARBON	39K	1/8W	
R139	1-246-783-00	CARBON	1K	1/8W	
R140	1-247-055-00	CARBON	300K	1/8W	
R141	1-246-792-00	CARBON	5.6K	1/8W	
R142	1-246-786-00	CARBON	1.8K	1/8W	

Ref.No.	Part No.	Description			Remark
R143	1-246-840-00	CARBON	510	1/8W	
R144	1-246-786-00	CARBON	1.8K	1/8W	
R145	1-246-855-00	CARBON	9.1K	1/8W	
R146	1-246-788-00	CARBON	2.7K	1/8W	
R147	1-246-795-00	CARBON	10K	1/8W	
R148	1-246-803-00	CARBON	47K	1/8W	
R149	1-246-803-00	CARBON	47K	1/8W	
R150	1-246-810-00	CARBON	180K	1/8W	
R151	1-246-862-00	CARBON	36K	1/8W	
R153	1-246-806-00	CARBON	82K	1/8W	
R154	1-246-831-00	CARBON	91	1/8W	
R155	1-246-801-00	CARBON	33K	1/8W	
R156	1-246-803-00	CARBON	47K	1/8W	
R157	1-246-783-00	CARBON	1K	1/8W	
R158	1-246-803-00	CARBON	47K	1/8W	
R161	1-246-869-00	CARBON	130K	1/8W	
R162	1-246-811-00	CARBON	220K	1/8W	
R163	1-246-786-00	CARBON	1.8K	1/8W	
R164	1-246-843-00	CARBON	910	1/8W	
R165	1-246-795-00	CARBON	10K	1/8W	
R166	1-246-839-00	CARBON	430	1/8W	
R167	1-246-847-00	CARBON	2K	1/8W	
R168	1-246-804-00	CARBON	56K	1/8W	
R169	1-246-804-00	CARBON	56K	1/8W	
R170	1-246-782-00	CARBON	820	1/8W	
R171	1-246-784-00	CARBON	1.2K	1/8W	
R172	1-246-795-00	CARBON	10K	1/8W	
R173	1-246-794-00	CARBON	8.2K	1/8W	
R174	1-246-793-00	CARBON	6.8K	1/8W	
R175	1-246-791-00	CARBON	4.7K	1/8W	
R176	1-246-857-00	CARBON	13K	1/8W	
R177	1-246-852-00	CARBON	5.1K	1/8W	
R178	1-246-847-00	CARBON	2K	1/8W	
R179	1-246-795-00	CARBON	10K	1/8W	
R180	1-246-795-00	CARBON	10K	1/8W	
R181	1-246-830-00	CARBON	75	1/8W	
R182	1-246-801-00	CARBON	33K	1/8W	
R183	1-246-795-00	CARBON	10K	1/8W	
R184	1-246-769-00	CARBON	68	1/8W	
R185	1-246-773-00	CARBON	150	1/8W	
R186	1-246-773-00	CARBON	150	1/8W	
R187	1-246-837-00	CARBON	300	1/8W	
R188	1-246-769-00	CARBON	68	1/8W	
R189	1-246-769-00	CARBON	68	1/8W	
R190	1-246-803-00	CARBON	47K	1/8W	
R191	1-246-797-00	CARBON	15K	1/8W	
R192	1-246-847-00	CARBON	2K	1/8W	
R193	1-246-849-00	CARBON	3K	1/8W	
R194	1-246-803-00	CARBON	47K	1/8W	
R195	1-246-794-00	CARBON	8.2K	1/8W	
R196	1-246-791-00	CARBON	4.7K	1/8W	
R197	1-246-837-00	CARBON	300	1/8W	
R198	1-246-847-00	CARBON	2K	1/8W	

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description			Remark
R199	1-246-805-00	CARBON	68K	1/8W	
R201	1-246-849-00	CARBON	3K	1/8W	
R207	1-246-847-00	CARBON	2K	1/8W	
R208	1-246-860-00	CARBON	24K	1/8W	
R209	1-246-860-00	CARBON	24K	1/8W	
R210	1-246-769-00	CARBON	68	1/8W	
		VARIABLE RESISTOR			
RV001	1-226-703-00	RES, ADJ, METAL GLAZE 10K			
RV002	1-226-774-00	RES, ADJ, METAL GLAZE 47K			
RV003	1-226-702-00	RES, ADJ, METAL GLAZE 2.2K			
RV004	1-226-774-00	RES, ADJ, METAL GLAZE 47K			
RV005	1-226-770-00	RES, ADJ, METAL GLAZE 470			
RV006	1-226-772-00	RES, ADJ, METAL GLAZE 4.7K			
RV007	1-226-775-00	RES, ADJ, METAL GLAZE 100K			
RV008	1-226-775-00	RES, ADJ, METAL GLAZE 100K			
RV009	1-226-774-00	RES, ADJ, METAL GLAZE 47K			
RV010	1-226-773-00	RES, ADJ, METAL GLAZE 22K			
RV011	1-226-708-00	RES, ADJ, SOLID 2.2K			
RV012	1-226-706-00	RES, ADJ, SOLID 470			
RV013	1-226-773-00	RES, ADJ, METAL GLAZE 22K			
RV014	1-226-773-00	RES, ADJ, METAL GLAZE 22K			
RV015	1-226-703-00	RES, ADJ, METAL GLAZE 10K			
RV016	1-226-708-00	RES, ADJ, SOLID 2.2K			
RV017	1-226-707-00	RES, ADJ, SOLID 1K			
RV018	1-226-703-00	RES, ADJ, METAL GLAZE 10K			
RV019	1-226-773-00	RES, ADJ, METAL GLAZE 22K			
RV020	1-226-709-00	RES, ADJ, SOLID 4.7K			
RV021	1-226-715-00	RES, ADJ, SOLID 470K			
RV022	1-226-774-00	RES, ADJ, METAL GLAZE 47K			
RV023	1-226-774-00	RES, ADJ, METAL GLAZE 47K			
RV024	1-226-773-00	RES, ADJ, METAL GLAZE 22K			
RV025	1-226-773-00	RES, ADJ, METAL GLAZE 22K			
RV026	1-228-543-00	RES, VAR, CARBON 100K			
		SWITCH			
SW001	1-552-821-00	SWITCH, SLIDE			
		TRANSFORMER			
T001	1-426-093-00	COIL, REC C BPT			
		CRYSTAL			
X001	1-527-345-00	CRYSTAL, OSC			

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♣: A-6713-135-A AM-1 BOARD, COMPLETE
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♣: 3-675-552-00 CASE (A) (MAIN), SHIELD, AM
♣: 3-675-553-00 LID, UPPER, SHIELD CASE(A), AM
♣: 3-675-554-00 CASE (B) (MAIN), SHIELD, AM
♣: 3-675-555-00 LID, UPPER, SHIELD CASE(B), AM

Ref.No.	Part No.	Description				Remark
		CAPACITOR				
C402	1-161-039-00	CERAMIC	0.001MF	10%	25V	
C403	1-161-039-00	CERAMIC	0.001MF	10%	25V	
C501	1-123-356-00	ELECT	10MF	20%	16V	
C502	1-123-307-00	ELECT	100MF	20%	10V	
C504	1-123-307-00	ELECT	100MF	20%	10V	
C505	1-131-404-00	ELECT(SOLID)	0.22MF	10%	25V	
C506	1-123-356-00	ELECT	10MF	20%	16V	
C515	1-161-039-00	CERAMIC	0.001MF	10%	25V	
C516	1-130-627-00	MYLAR	0.039MF	5%	50V	
C517	1-130-480-00	MYLAR	0.0056MF	5%	50V	
C518	1-130-495-00	MYLAR	0.1MF	5%	50V	
C519	1-130-483-00	MYLAR	0.01MF	5%	50V	
C520	1-123-340-00	ELECT	4.7MF	20%	35V	
C521	1-123-295-00	ELECT	100MF	20%	6.3V	
C522	1-123-356-00	ELECT	10MF	20%	16V	
C523	1-123-340-00	ELECT	4.7MF	20%	35V	
C524	1-123-381-00	ELECT	2.2MF	20%	50V	
C525	1-102-978-00	CERAMIC	220PF	5%	50V	
C526	1-123-356-00	ELECT	10MF	20%	16V	
C527	1-123-356-00	ELECT	10MF	20%	16V	
C528	1-102-978-00	CERAMIC	220PF	5%	50V	
C529	1-123-381-00	ELECT	2.2MF	20%	50V	
C530	1-123-340-00	ELECT	4.7MF	20%	35V	
C531	1-123-356-00	ELECT	10MF	20%	16V	
C532	1-123-295-00	ELECT	100MF	20%	6.3V	
C533	1-123-340-00	ELECT	4.7MF	20%	35V	
C534	1-130-483-00	MYLAR	0.01MF	5%	50V	
C535	1-130-495-00	MYLAR	0.1MF	5%	50V	
C536	1-161-039-00	CERAMIC	0.001MF	10%	25V	
C537	1-130-627-00	MYLAR	0.039MF	5%	50V	
C538	1-130-480-00	MYLAR	0.0056MF	5%	50V	
C554	1-123-306-00	ELECT	47MF	20%	10V	
C555	1-123-307-00	ELECT	100MF	20%	10V	
C556	1-123-307-00	ELECT	100MF	20%	10V	
C558	1-123-379-00	ELECT	0.47MF	20%	50V	
C559	1-123-379-00	ELECT	0.47MF	20%	50V	
C560	1-123-294-00	ELECT	47MF	20%	6.3V	
C561	1-123-307-00	ELECT	100MF	20%	10V	
C562	1-123-307-00	ELECT	100MF	20%	10V	
C563	1-123-306-00	ELECT	47MF	20%	10V	
C564	1-102-980-00	CERAMIC	270PF	5%	50V	
C565	1-102-980-00	CERAMIC	270PF	5%	50V	
C568	1-130-477-00	MYLAR	0.0033MF	5%	50V	
C569	1-130-479-00	MYLAR	0.0047MF	5%	50V	
C570	1-129-709-00	FILM	0.0039MF	10%	630V	
C571	1-123-356-00	ELECT	10MF	20%	16V	
C572	1-123-332-00	ELECT	47MF	20%	16V	
C574	1-102-978-00	CERAMIC	220PF	10%	50V	
C577	1-123-294-00	ELECT	47MF	20%	6.3V	
C578	1-102-115-00	CERAMIC	560PF	10%	50V	

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description			Remark
C579	1-130-488-00	MYLAR	0.027MF	5%	50V
C580	1-102-973-00	CERAMIC	100PF	5%	50V
C582	1-130-482-00	MYLAR	0.0082MF	5%	50V
C583	1-102-947-00	CERAMIC	10PF	5%	50V
C584	1-102-978-00	CERAMIC	220PF	10%	50V
C590	1-102-973-00	CERAMIC	100PF	5%	50V
C592	1-130-482-00	MYLAR	0.0082MF	5%	50V
C593	1-102-947-00	CERAMIC	10PF	5%	50V
C594	1-123-356-00	ELECT	10MF	20%	16V
C595	1-123-356-00	ELECT	10MF	20%	16V
C596	1-123-380-00	ELECT	1MF	20%	50V
C597	1-123-356-00	ELECT	10MF	20%	16V
C598	1-123-356-00	ELECT	10MF	20%	16V
C599	1-123-380-00	ELECT	1MF	20%	50V
C600	1-123-340-00	ELECT	4.7MF	20%	35V
C601	1-123-294-00	ELECT	47MF	20%	6.3V
C602	1-123-356-00	ELECT	10MF	20%	16V
C603	1-123-356-00	ELECT	10MF	20%	16V
C604	1-123-380-00	ELECT	1MF	20%	50V
C605	1-123-380-00	ELECT	1MF	20%	50V
C606	1-123-333-00	ELECT	100MF	20%	16V
C607	1-123-332-00	ELECT	47MF	20%	16V
C608	1-123-306-00	ELECT	47MF	20%	10V
C609	1-123-308-00	ELECT	220MF	20%	10V
C610	1-123-332-00	ELECT	47MF	20%	16V
C611	1-123-332-00	ELECT	47MF	20%	16V
C612	1-102-116-00	CERAMIC	680PF	10%	50V
C613	1-123-356-00	ELECT	10MF	20%	16V
C614	1-131-404-00	ELECT(SOLID)	0.22MF	10%	25V
C615	1-123-356-00	ELECT	10MF	20%	16V
C616	1-123-380-00	ELECT	1MF	20%	50V
C617	1-123-380-00	ELECT	1MF	20%	50V
C618	1-123-356-00	ELECT	10MF	20%	16V
C619	1-123-356-00	ELECT	10MF	20%	16V
C621	1-123-356-00	ELECT	10MF	20%	16V
C623	1-161-021-00	CERAMIC	0.047MF	10%	25V
C626	1-123-309-00	ELECT	330MF	20%	10V
C631	1-123-380-00	ELECT	1MF	20%	50V
C632	1-161-023-00	CERAMIC	0.068MF	10%	25V
C634	1-123-356-00	ELECT	10MF	20%	16V
C635	1-123-356-00	ELECT	10MF	20%	16V
C637	1-130-487-00	MYLAR	0.02MF	5%	50V
C638	1-123-380-00	ELECT	1MF	20%	50V
C639	1-161-023-00	CERAMIC	0.068MF	10%	25V
C644	1-130-487-00	MYLAR	0.02MF	5%	50V
C645	1-123-356-00	ELECT	10MF	20%	16V
C646	1-123-356-00	ELECT	10MF	20%	16V
C652	1-161-016-00	CERAMIC	0.018MF	10%	25V

Ref.No.	Part No.	Description			Remark
C656	1-102-978-00	CERAMIC	220PF	5%	50V
C657	1-102-978-00	CERAMIC	220PF	5%	50V
C801	1-161-009-00	CERAMIC	0.0047MF	10%	25V
C802	1-123-356-00	ELECT	10MF	20%	16V
C803	1-123-307-00	ELECT	100MF	20%	10V
C807	1-123-356-00	ELECT	10MF	20%	16V
C808	1-123-356-00	ELECT	10MF	20%	16V
C809	1-123-356-00	ELECT	10MF	20%	16V
C810	1-123-356-00	ELECT	10MF	20%	16V
C814	1-123-356-00	ELECT	10MF	20%	16V
C815	1-123-356-00	ELECT	10MF	20%	16V
C827	1-123-380-00	ELECT	1MF	20%	50V
C828	1-123-380-00	ELECT	1MF	20%	50V
C831	1-123-356-00	ELECT	10MF	20%	16V
C832	1-123-332-00	ELECT	47MF	20%	16V
C844	1-130-479-00	MYLAR	0.0047MF	5%	50V
C845	1-130-473-00	MYLAR	0.0015MF	5%	50V
C852	1-161-021-00	CERAMIC	0.047MF	10%	25V
C853	1-123-330-00	ELECT	22MF	20%	16V
C854	1-123-308-00	ELECT	220MF	20%	10V
C855	1-123-330-00	ELECT	22MF	20%	16V
C864	1-130-477-00	MYLAR	0.0033MF	5%	50V
C865	1-130-477-00	MYLAR	0.0033MF	5%	50V
C866	1-107-164-00	CERAMIC	51PF	5%	500V
C867	1-107-164-00	CERAMIC	51PF	5%	500V

CONNECTOR

CN001♣	1-560-591-00	PIN, CONNECTOR	7P
CN002♣	1-560-469-00	PIN, CONNECTOR	6P
CN003♣	1-560-466-00	PIN, CONNECTOR	3P
CN005♣	1-560-468-00	PIN, CONNECTOR	5P
CN006♣	1-560-456-00	PIN, CONNECTOR	2P
CN007♣	1-560-466-00	PIN, CONNECTOR	3P
CN008♣	1-560-469-00	PIN, CONNECTOR	6P
CN009♣	1-560-470-00	PIN, CONNECTOR	8P
CN010♣	1-560-469-00	PIN, CONNECTOR	6P
CN011♣	1-560-471-00	PIN, CONNECTOR	10P

TRIMMER

CT501	1-141-215-00	CAP, TRIMMER
CT502	1-141-215-00	CAP, TRIMMER

DIODE

D504	=>8-719-901-33	DIODE 1SS133
D505	=>8-719-901-33	DIODE 1SS133
D507	=>8-719-901-33	DIODE 1SS133
D508	=>8-719-901-33	DIODE 1SS133
D509	=>8-719-901-33	DIODE 1SS133
D510	=>8-719-901-33	DIODE 1SS133
D511	=>8-719-901-33	DIODE 1SS133

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description	Remark
D512	=>8-719-901-33	DIODE 1SS133	
D513	=>8-719-901-33	DIODE 1SS133	
D514	=>8-719-175-07	DIODE RD7.5E-B	
D515	=>8-719-901-33	DIODE 1SS133	
D516	=>8-719-901-33	DIODE 1SS133	
D517	=>8-719-901-33	DIODE 1SS133	
D518	=>8-719-901-33	DIODE 1SS133	
D519	=>8-719-901-33	DIODE 1SS133	
D525	8-719-113-07	DIODE RD13E-B	
D526	8-719-113-07	DIODE RD13E-B	
D527	8-719-113-07	DIODE RD13E-B	
D528	8-719-113-07	DIODE RD13E-B	
D531	=>8-719-901-33	DIODE 1SS133	
D532	=>8-719-901-33	DIODE 1SS133	
D533	=>8-719-901-33	DIODE 1SS133	
D534	=>8-719-901-33	DIODE 1SS133	
D551	=>8-719-901-33	DIODE 1SS133	
D552	=>8-719-901-33	DIODE 1SS133	
D553	=>8-719-901-33	DIODE 1SS133	
D554	=>8-719-901-33	DIODE 1SS133	
D560	8-719-113-07	DIODE RD13E-B	
D561	8-719-113-07	DIODE RD13E-B	
D562	8-719-113-07	DIODE RD13E-B	
D563	8-719-113-07	DIODE RD13E-B	
D951	=>8-719-901-33	DIODE 1SS133	
D952	=>8-719-901-33	DIODE 1SS133	
		IC	
IC501	8-759-240-52	IC TC4052BP	
IC506	8-759-240-53	IC TC4053BP	
IC507	=>8-759-905-71	IC NE571N	
IC508	8-759-240-53	IC TC4053BP	
IC509	8-759-145-58	IC UPC4558C	
IC510	8-759-145-58	IC UPC4558C	
IC511	8-759-145-58	IC UPC4558C	
IC512	8-759-145-58	IC UPC4558C	
IC513	8-759-145-58	IC UPC4558C	
IC520	8-759-145-58	IC UPC4558C	
IC521	8-759-240-53	IC TC4053BP	
IC522	8-759-618-48	IC M51848L	
IC524	8-759-240-52	IC TC4052BP	
		COIL	
L501	1-459-351-00	COIL (WITH CORE)	
L502	1-459-351-00	COIL (WITH CORE)	
L505	1-407-710-00	MICRO INDUCTOR 270UH	
L506	1-407-709-00	MICRO INDUCTOR 220UH	
L508	1-407-492-00	MICRO INDUCTOR 1MMH	
L509	1-407-717-00	MICRO INDUCTOR 1MMH	
L510	1-407-719-00	MICRO INDUCTOR 1.5MMH	
L513	1-407-718-00	MICRO INDUCTOR 1.2MMH	
L514	1-407-717-00	MICRO INDUCTOR 1MMH	
L520	1-407-176-XX	MICRO INDUCTOR 390UH	

Ref.No.	Part No.	Description	Remark
		VARIABLE COIL	
LV501	1-408-523-00	COIL, VARIABLE	
LV502	1-408-523-00	COIL, VARIABLE	
LV503	1-408-524-00	INDUCTOR, ADJ	
		TRANSISTOR	
Q501	8-729-178-54	TRANSISTOR 2SC2785	
Q503	8-729-178-54	TRANSISTOR 2SC2785	
Q504	8-729-178-54	TRANSISTOR 2SC2785	
Q505	8-729-178-55	TRANSISTOR 2SC2785-E	
Q506	=>8-729-117-54	TRANSISTOR 2SA1175	
Q507	=>8-729-178-55	TRANSISTOR 2SC2785-E	
Q508	=>8-729-117-54	TRANSISTOR 2SA1175	
Q509	8-729-178-54	TRANSISTOR 2SC2785	
Q511	8-729-178-54	TRANSISTOR 2SC2785	
Q512	8-729-178-54	TRANSISTOR 2SC2785	
Q513	8-729-967-32	TRANSISTOR 2SC2673	
Q515	8-729-178-54	TRANSISTOR 2SC2785	
Q517	8-729-988-12	TRANSISTOR 2SA881	
Q518	8-729-178-54	TRANSISTOR 2SC2785	
Q522	8-729-908-62	TRANSISTOR 2SD786	
Q523	8-729-602-77	TRANSISTOR 2SA1027-6	
Q524	8-729-178-54	TRANSISTOR 2SC2785	
Q525	8-729-178-54	TRANSISTOR 2SC2785	
Q529	8-729-908-62	TRANSISTOR 2SD786	
Q530	=>8-729-602-77	TRANSISTOR 2SA1027-6	
Q531	8-729-178-54	TRANSISTOR 2SC2785	
Q532	8-729-384-48	TRANSISTOR 2SA844	
Q533	8-729-384-48	TRANSISTOR 2SA844	
Q534	8-729-384-48	TRANSISTOR 2SA844	
Q535	8-729-384-48	TRANSISTOR 2SA844	
Q536	8-729-178-54	TRANSISTOR 2SC2785	
Q537	8-729-178-54	TRANSISTOR 2SC2785	
Q538	8-729-178-54	TRANSISTOR 2SC2785	
Q539	8-729-178-54	TRANSISTOR 2SC2785	
Q540	8-729-967-32	TRANSISTOR 2SC2673	
Q541	8-729-178-54	TRANSISTOR 2SC2785	
Q542	8-729-178-54	TRANSISTOR 2SC2785	
Q544	8-729-178-54	TRANSISTOR 2SC2785	
Q545	8-729-334-58	TRANSISTOR 2SC1345	
Q546	8-729-334-58	TRANSISTOR 2SC1345	
Q551	8-729-178-54	TRANSISTOR 2SC2785	
Q552	8-729-178-54	TRANSISTOR 2SC2785	
Q553	8-729-178-54	TRANSISTOR 2SC2785	
Q554	8-729-178-54	TRANSISTOR 2SC2785	
Q555	=>8-729-178-55	TRANSISTOR 2SC2785-E	
Q556	=>8-729-178-55	TRANSISTOR 2SC2785-E	
Q557	8-729-178-54	TRANSISTOR 2SC2785	
Q583	=>8-729-204-83	TRANSISTOR 2SA1048-GR	
Q584	8-729-178-54	TRANSISTOR 2SC2785	
Q585	8-729-178-54	TRANSISTOR 2SC2785	

When indicating parts by reference number, please include the board name.

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Ref.No.	Part No.	Description	Remark
Q586	8-729-178-54	TRANSISTOR 2SC2785	
Q589	=>8-729-204-83	TRANSISTOR 2SA1048-GR	
Q601	8-729-178-54	TRANSISTOR 2SC2785	
Q602	8-729-178-54	TRANSISTOR 2SC2785	
Q603	8-729-178-54	TRANSISTOR 2SC2785	
Q604	8-729-178-54	TRANSISTOR 2SC2785	
Q605	8-729-178-54	TRANSISTOR 2SC2785	
Q606	8-729-178-54	TRANSISTOR 2SC2785	
Q607	8-729-178-54	TRANSISTOR 2SC2785	
Q608	=>8-729-204-83	TRANSISTOR 2SA1048-GR	
Q609	8-729-178-54	TRANSISTOR 2SC2785	
Q610	8-729-178-54	TRANSISTOR 2SC2785	
Q611	=>8-729-204-83	TRANSISTOR 2SA1048-GR	
Q612	8-729-178-54	TRANSISTOR 2SC2785	
Q613	=>8-729-204-83	TRANSISTOR 2SA1048-GR	
Q614	8-729-178-54	TRANSISTOR 2SC2785	
Q615	8-729-178-54	TRANSISTOR 2SC2785	
Q951	=>8-729-204-83	TRANSISTOR 2SA1048-GR	
Q952	=>8-729-204-83	TRANSISTOR 2SA1048-GR	

RESISTOR

R401	1-246-807-00	CARBON	100K	1/8W
R402	1-246-807-00	CARBON	100K	1/8W
R403	1-246-783-00	CARBON	1K	1/8W
R404	1-246-795-00	CARBON	10K	1/8W
R405	1-246-798-00	CARBON	18K	1/8W
R406	1-247-046-00	CARBON	270K	1/8W
R407	1-246-773-00	CARBON	150	1/8W
R408	1-246-800-00	CARBON	27K	1/8W
R409	1-246-800-00	CARBON	27K	1/8W
R410	1-247-046-00	CARBON	270K	1/8W
R411	1-246-798-00	CARBON	18K	1/8W
R412	1-246-773-00	CARBON	150	1/8W
R413	1-246-783-00	CARBON	1K	1/8W
R414	1-246-807-00	CARBON	100K	1/8W
R415	1-246-795-00	CARBON	10K	1/8W
R416	1-246-807-00	CARBON	100K	1/8W
R417	1-246-805-00	CARBON	68K	1/8W
R418	1-246-807-00	CARBON	100K	1/8W
R419	1-246-805-00	CARBON	68K	1/8W
R420	1-246-807-00	CARBON	100K	1/8W
R421	1-246-860-00	CARBON	24K	1/8W
R422	1-246-799-00	CARBON	22K	1/8W
R423	1-247-046-00	CARBON	270K	1/8W
R424	1-246-805-00	CARBON	68K	1/8W
R425	1-246-797-00	CARBON	15K	1/8W
R426	1-246-803-00	CARBON	47K	1/8W
R427	1-247-046-00	CARBON	270K	1/8W
R428	1-246-805-00	CARBON	68K	1/8W
R429	1-246-797-00	CARBON	15K	1/8W
R433	1-246-803-00	CARBON	47K	1/8W
R434	1-246-799-00	CARBON	22K	1/8W
R435	1-246-794-00	CARBON	8.2K	1/8W
R436	1-246-794-00	CARBON	8.2K	1/8W

Ref.No.	Part No.	Description		Remark
R437	1-246-790-00	CARBON	3.9K	1/8W
R438	1-246-790-00	CARBON	3.9K	1/8W
R439	1-246-794-00	CARBON	8.2K	1/8W
R440	1-246-794-00	CARBON	8.2K	1/8W
R441	1-246-799-00	CARBON	22K	1/8W
R442	1-246-794-00	CARBON	8.2K	1/8W
R443	1-246-799-00	CARBON	22K	1/8W
R444	1-246-794-00	CARBON	8.2K	1/8W
R445	1-246-801-00	CARBON	33K	1/8W
R446	1-246-799-00	CARBON	22K	1/8W
R447	1-246-799-00	CARBON	22K	1/8W
R448	1-246-799-00	CARBON	22K	1/8W
R449	1-246-799-00	CARBON	22K	1/8W
R450	1-246-801-00	CARBON	33K	1/8W
R451	1-246-801-00	CARBON	33K	1/8W
R452	1-246-807-00	CARBON	100K	1/8W
R453	1-246-805-00	CARBON	68K	1/8W
R454	1-246-805-00	CARBON	68K	1/8W
R455	1-246-805-00	CARBON	68K	1/8W
R456	1-246-794-00	CARBON	8.2K	1/8W
R457	1-246-811-00	CARBON	220K	1/8W
R458	1-246-807-00	CARBON	100K	1/8W
R459	1-246-805-00	CARBON	68K	1/8W
R461	1-246-801-00	CARBON	33K	1/8W
R462	1-246-805-00	CARBON	68K	1/8W
R463	1-246-807-00	CARBON	100K	1/8W
R464	1-246-803-00	CARBON	47K	1/8W
R465	1-246-807-00	CARBON	100K	1/8W
R466	1-246-794-00	CARBON	8.2K	1/8W
R467	1-246-811-00	CARBON	220K	1/8W
R468	1-246-783-00	CARBON	1K	1/8W
R469	1-246-805-00	CARBON	68K	1/8W
R470	1-246-805-00	CARBON	68K	1/8W
R471	1-246-805-00	CARBON	68K	1/8W
R472	1-246-807-00	CARBON	100K	1/8W
R473	1-246-807-00	CARBON	100K	1/8W
R474	1-246-805-00	CARBON	68K	1/8W
R475	1-246-805-00	CARBON	68K	1/8W
R476	1-246-807-00	CARBON	100K	1/8W
R477	1-246-805-00	CARBON	68K	1/8W
R478	1-246-807-00	CARBON	100K	1/8W
R479	1-246-794-00	CARBON	8.2K	1/8W
R480	1-246-783-00	CARBON	1K	1/8W
R481	1-246-811-00	CARBON	220K	1/8W
R485	1-246-803-00	CARBON	47K	1/8W
R486	1-246-799-00	CARBON	22K	1/8W
R501	1-246-803-00	CARBON	47K	1/8W
R502	1-246-803-00	CARBON	47K	1/8W
R516	1-246-805-00	CARBON	68K	1/8W
R517	1-246-811-00	CARBON	220K	1/8W
R519	1-246-801-00	CARBON	33K	1/8W

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description				Remark
R520	1-246-804-00	CARBON	56K		1/8W	
R521	1-246-808-00	CARBON	120K		1/8W	
R522	1-215-449-31	METAL	15K	1%	1/6W	
R523	1-215-413-00	METAL	470	1%	1/6W	
R524	1-215-449-31	METAL	15K	1%	1/6W	
R525	1-215-456-00	METAL	30K	1%	1/6W	
R526	1-215-463-00	METAL	56K	1%	1/6W	
R527	1-246-861-00	CARBON	30K		1/8W	
R528	1-246-797-00	CARBON	15K		1/8W	
R529	1-246-797-00	CARBON	15K		1/8W	
R530	1-246-791-00	CARBON	4.7K		1/8W	
R531	1-246-801-00	CARBON	33K		1/8W	
R532	1-246-787-00	CARBON	2.2K		1/8W	
R533	1-246-799-00	CARBON	22K		1/8W	
R534	1-246-807-00	CARBON	100K		1/8W	
R536	1-246-863-00	CARBON	43K		1/8W	
R537	1-246-811-00	CARBON	220K		1/8W	
R538	1-246-804-00	CARBON	56K		1/8W	
R539	1-246-803-00	CARBON	47K		1/8W	
R540	1-246-789-00	CARBON	3.3K		1/8W	
R545	1-246-789-00	CARBON	3.3K		1/8W	
R546	1-246-811-00	CARBON	220K		1/8W	
R547	1-246-863-00	CARBON	43K		1/8W	
R548	1-246-803-00	CARBON	47K		1/8W	
R549	1-246-807-00	CARBON	100K		1/8W	
R550	1-246-805-00	CARBON	68K		1/8W	
R551	1-246-811-00	CARBON	220K		1/8W	
R554	1-246-801-00	CARBON	33K		1/8W	
R555	1-246-804-00	CARBON	56K		1/8W	
R556	1-246-808-00	CARBON	120K		1/8W	
R557	1-215-449-31	METAL	15K	1%	1/6W	
R558	1-215-413-00	METAL	470	1%	1/6W	
R559	1-215-449-31	METAL	15K	1%	1/6W	
R560	1-215-463-00	METAL	56K	1%	1/6W	
R561	1-215-456-00	METAL	30K	1%	1/6W	
R562	1-246-861-00	CARBON	30K		1/8W	
R563	1-246-797-00	CARBON	15K		1/8W	
R564	1-246-797-00	CARBON	15K		1/8W	
R565	1-246-807-00	CARBON	100K		1/8W	
R566	1-246-799-00	CARBON	22K		1/8W	
R567	1-246-791-00	CARBON	4.7K		1/8W	
R568	1-246-801-00	CARBON	33K		1/8W	
R569	1-246-787-00	CARBON	2.2K		1/8W	
R573	1-246-759-00	CARBON	10		1/8W	
R574	1-246-759-00	CARBON	10		1/8W	
R575	1-246-980-00	CARBON	3.3	5%	1/8W	F
R577	1-246-859-00	CARBON	20K		1/8W	
R580	1-246-799-00	CARBON	22K		1/8W	
R582	1-246-794-00	CARBON	8.2K		1/8W	
R588	1-246-784-00	CARBON	1.2K		1/8W	
R589	1-246-784-00	CARBON	1.2K		1/8W	
R590	1-246-787-00	CARBON	2.2K		1/8W	
R591	1-246-787-00	CARBON	2.2K		1/8W	

Ref.No.	Part No.	Description				Remark
R593	1-246-804-00	CARBON	56K		1/8W	
R594	1-246-807-00	CARBON	100K		1/8W	
R595	1-246-795-00	CARBON	10K		1/8W	
R596	1-214-761-00	METAL	22K	1%	1/4W	
R603	1-246-791-00	CARBON	4.7K		1/8W	
R604	1-246-791-00	CARBON	4.7K		1/8W	
R605	1-246-521-00	CARBON	100K	5%	1/4W	
R606	1-246-539-00	CARBON	560K	5%	1/4W	
R607	1-246-517-00	CARBON	68K	5%	1/4W	
R608	1-246-768-00	CARBON	56		1/8W	
R610	1-247-056-00	CARBON	360K		1/8W	
R612	1-246-513-00	CARBON	47K	5%	1/4W	
R613	1-246-796-00	CARBON	12K		1/8W	
R614	1-246-795-00	CARBON	10K		1/8W	
R615	1-246-505-00	CARBON	22K	5%	1/4W	
R616	1-246-792-00	CARBON	5.6K		1/8W	
R617	1-246-807-00	CARBON	100K		1/8W	
R618	1-246-795-00	CARBON	10K		1/8W	
R619	1-214-761-00	METAL	22K	1%	1/4W	
R628	1-246-521-00	CARBON	100K	5%	1/4W	
R629	1-246-539-00	CARBON	560K	5%	1/4W	
R630	1-246-517-00	CARBON	68K	5%	1/4W	
R631	1-246-768-00	CARBON	56		1/8W	
R633	1-247-056-00	CARBON	360K		1/8W	
R635	1-246-513-00	CARBON	47K	5%	1/4W	
R636	1-246-796-00	CARBON	12K		1/8W	
R637	1-246-795-00	CARBON	10K		1/8W	
R638	1-246-505-00	CARBON	22K	5%	1/4W	
R639	1-246-792-00	CARBON	5.6K		1/8W	
R640	1-246-799-00	CARBON	22K		1/8W	
R641	1-246-801-00	CARBON	33K		1/8W	
R642	1-246-794-00	CARBON	8.2K		1/8W	
R643	1-247-059-00	CARBON	620K		1/8W	
R644	1-246-799-00	CARBON	22K		1/8W	
R645	1-246-794-00	CARBON	8.2K		1/8W	
R646	1-247-059-00	CARBON	620K		1/8W	
R647	1-247-053-00	CARBON	1M		1/8W	
R648	1-247-053-00	CARBON	1M		1/8W	
R649	1-247-047-00	CARBON	330K		1/8W	
R650	1-246-791-00	CARBON	4.7K		1/8W	
R651	1-246-799-00	CARBON	22K		1/8W	
R652	1-246-789-00	CARBON	3.3K		1/8W	
R653	1-247-046-00	CARBON	270K		1/8W	
R654	1-246-811-00	CARBON	220K		1/8W	
R655	1-246-789-00	CARBON	3.3K		1/8W	
R656	1-247-046-00	CARBON	270K		1/8W	
R657	1-246-811-00	CARBON	220K		1/8W	
R658	1-246-807-00	CARBON	100K		1/8W	
R659	1-246-805-00	CARBON	68K		1/8W	

When indicating parts by reference number, please include the board name.

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Ref.No.	Part No.	Description				Remark
R660	1-246-807-00	CARBON	100K		1/8W	
R661	1-246-805-00	CARBON	68K		1/8W	
R662	1-246-787-00	CARBON	2.2K		1/8W	
R663	1-247-048-00	CARBON	390K		1/8W	
R664	1-246-795-00	CARBON	10K		1/8W	
R665	1-246-795-00	CARBON	10K		1/8W	
R666	1-246-795-00	CARBON	10K		1/8W	
R668	1-246-795-00	CARBON	10K		1/8W	
R669	1-246-803-00	CARBON	47K		1/8W	
R670	1-246-784-00	CARBON	1.2K		1/8W	
R671 ⚠	1-212-869-00	FUSIBLE	33	5%	1/4W	F
R672	1-246-771-00	CARBON	100		1/8W	
R673	1-246-788-00	CARBON	2.7K		1/8W	
R686	1-246-803-00	CARBON	47K		1/8W	
R687	1-246-787-00	CARBON	2.2K		1/8W	
R688	1-246-811-00	CARBON	220K		1/8W	
R689	1-246-811-00	CARBON	220K		1/8W	
R690	1-246-803-00	CARBON	47K		1/8W	
R691	1-246-787-00	CARBON	2.2K		1/8W	
R692	1-247-059-00	CARBON	620K		1/8W	
R693	1-247-059-00	CARBON	620K		1/8W	
R694	1-246-789-00	CARBON	3.3K		1/8W	
R695	1-246-789-00	CARBON	3.3K		1/8W	
R696	1-246-792-00	CARBON	5.6K		1/8W	
R697	1-246-791-00	CARBON	4.7K		1/8W	
R698	1-246-803-00	CARBON	47K		1/8W	
R699	1-246-792-00	CARBON	5.6K		1/8W	
R700	1-246-791-00	CARBON	4.7K		1/8W	
R701	1-246-803-00	CARBON	47K		1/8W	
R704	1-246-855-00	CARBON	9.1K		1/8W	
R705	1-246-777-00	CARBON	330		1/8W	
R706	1-246-807-00	CARBON	100K		1/8W	
R709	1-246-791-00	CARBON	4.7K		1/8W	
R711	1-246-801-00	CARBON	33K		1/8W	
R714	1-246-803-00	CARBON	47K		1/8W	
R715	1-246-771-00	CARBON	100		1/8W	
R716	1-246-771-00	CARBON	100		1/8W	
R717	1-246-803-00	CARBON	47K		1/8W	
R721	1-246-800-00	CARBON	27K		1/8W	
R722	1-246-860-00	CARBON	24K		1/8W	
R723	1-246-861-00	CARBON	30K		1/8W	
R724	1-246-778-00	CARBON	390		1/8W	
R726	1-246-807-00	CARBON	100K		1/8W	
R727	1-246-797-00	CARBON	15K		1/8W	
R728	1-246-788-00	CARBON	2.7K		1/8W	
R729	1-246-771-00	CARBON	100		1/8W	
R730	1-246-797-00	CARBON	15K		1/8W	
R732	1-246-807-00	CARBON	100K		1/8W	
R733	1-246-797-00	CARBON	15K		1/8W	
R734	1-246-800-00	CARBON	27K		1/8W	
R735	1-246-860-00	CARBON	24K		1/8W	
R736	1-246-861-00	CARBON	30K		1/8W	
R737	1-246-778-00	CARBON	390		1/8W	

Ref.No.	Part No.	Description				Remark
R739	1-246-807-00	CARBON	100K		1/8W	
R740	1-246-797-00	CARBON	15K		1/8W	
R741	1-246-788-00	CARBON	2.7K		1/8W	
R742	1-246-771-00	CARBON	100		1/8W	
R743	1-246-797-00	CARBON	15K		1/8W	
R745	1-246-807-00	CARBON	100K		1/8W	
R746	1-246-797-00	CARBON	15K		1/8W	
R747	1-246-792-00	CARBON	5.6K		1/8W	
R748	1-246-792-00	CARBON	5.6K		1/8W	
R749	1-246-807-00	CARBON	100K		1/8W	
R751	1-246-799-00	CARBON	22K		1/8W	
R755	1-246-801-00	CARBON	33K		1/8W	
R756	1-246-807-00	CARBON	100K		1/8W	
R759	1-246-799-00	CARBON	22K		1/8W	
R801 ⚠	1-213-128-00	METAL	56	5%	1W	F
R802	1-246-756-00	CARBON	5.6		1/8W	
R817	1-246-799-00	CARBON	22K		1/8W	
R818	1-246-799-00	CARBON	22K		1/8W	
R819	1-246-771-00	CARBON	100		1/8W	
R820	1-246-805-00	CARBON	68K		1/8W	
R821	1-246-807-00	CARBON	100K		1/8W	
R822	1-246-807-00	CARBON	100K		1/8W	
R823	1-246-805-00	CARBON	68K		1/8W	
R826	1-246-771-00	CARBON	100		1/8W	
R827	1-246-783-00	CARBON	1K		1/8W	
R829	1-246-794-00	CARBON	8.2K		1/8W	
R830	1-246-805-00	CARBON	68K		1/8W	
R839	1-246-801-00	CARBON	33K		1/8W	
R840	1-246-801-00	CARBON	33K		1/8W	
R841	1-246-795-00	CARBON	10K		1/8W	
R842	1-246-799-00	CARBON	22K		1/8W	
R843	1-246-799-00	CARBON	22K		1/8W	
R844	1-246-795-00	CARBON	10K		1/8W	
R845	1-246-795-00	CARBON	10K		1/8W	
R846	1-246-789-00	CARBON	3.3K		1/8W	
R848	1-246-795-00	CARBON	10K		1/8W	
R849	1-246-800-00	CARBON	27K		1/8W	
R854	1-246-799-00	CARBON	22K		1/8W	
R855	1-246-799-00	CARBON	22K		1/8W	
R856	1-246-780-00	CARBON	560		1/8W	
R861	1-246-795-00	CARBON	10K		1/8W	
R862	1-246-791-00	CARBON	4.7K		1/8W	
R863	1-246-799-00	CARBON	22K		1/8W	
R864	1-246-799-00	CARBON	22K		1/8W	
R865	1-246-795-00	CARBON	10K		1/8W	
R866	1-246-800-00	CARBON	27K		1/8W	
R867	1-246-800-00	CARBON	27K		1/8W	
R871	1-246-807-00	CARBON	100K		1/8W	
R872	1-246-799-00	CARBON	22K		1/8W	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description			Remark
R873	1-246-799-00	CARBON	22K	1/8W	
R901	1-246-801-00	CARBON	33K	1/8W	
R912	1-246-805-00	CARBON	68K	1/8W	
R913	1-246-807-00	CARBON	100K	1/8W	
R951	1-246-787-00	CARBON	2.2K	1/8W	
R952	1-247-051-00	CARBON	680K	1/8W	
R953	1-247-051-00	CARBON	680K	1/8W	
R954	1-246-807-00	CARBON	100K	1/8W	
R961	1-246-792-00	CARBON	5.6K	1/8W	
R962	1-246-799-00	CARBON	22K	1/8W	
R963	1-246-792-00	CARBON	5.6K	1/8W	
R964	1-246-799-00	CARBON	22K	1/8W	
R970	1-246-787-00	CARBON	2.2K	1/8W	
R971	1-246-793-00	CARBON	6.8K	1/8W	
R973	1-246-801-00	CARBON	33K	1/8W	
R974	1-246-801-00	CARBON	33K	1/8W	
		VARIABLE RESISTOR			
RV501	1-224-255-XX	RES, ADJ, SOLID 100K			
RV502	1-224-254-XX	RES, ADJ, SOLID 47K			
RV503	1-224-249-XX	RES, ADJ, SOLID 1K			
RV504	1-224-249-XX	RES, ADJ, SOLID 1K			
RV505	1-224-254-XX	RES, ADJ, SOLID 47K			
RV506	1-224-251-XX	RES, ADJ, SOLID 4.7K			
RV507	1-224-251-XX	RES, ADJ, SOLID 4.7K			
RV508	1-224-256-XX	RES, ADJ, SOLID 220K			
RV509	1-224-256-XX	RES, ADJ, SOLID 220K			
RV510	1-224-255-XX	RES, ADJ, SOLID 100K			
RV511	1-224-255-XX	RES, ADJ, SOLID 100K			
RV512	1-224-255-XX	RES, ADJ, SOLID 100K			
		RELAY			
RY501	1-515-418-00	RELAY			
RY502	1-515-418-00	RELAY			
RY503	1-515-416-00	RELAY			
RY504	1-515-416-00	RELAY			
		TRANSFORMER			
T501	1-433-237-00	TRANSFORMER, OSCILLATOR			
T503	1-409-354-00	COIL, TRAP			
T505	1-235-059-00	COIL, (L.P.F)			
T506	1-235-059-00	COIL, (L.P.F)			
**********					
♦:A-6715-153-A		SS-11 BOARD, COMPLETE			
		**********			
	1-533-162-00	HOLDER, FUSE			
♦:3-655-214-00		CLIP, CABLE			
♦:3-671-839-00		CASE (MAIN), SHIELD, SS-10			
		CAPACITOR			
C001	1-123-820-00	ELECT	33MF	20% 16V	
C002	1-161-019-00	CERAMIC	0.033MF	10% 25V	
C003	1-123-617-00	ELECT	10MF	20% 16V	
C004	1-123-617-00	ELECT	10MF	20% 16V	
C005	1-161-039-00	CERAMIC	0.001MF	10% 25V	
C006	1-123-333-00	ELECT	100MF	20% 16V	

Ref.No.	Part No.	Description			Remark
C007	1-123-820-00	ELECT	33MF	20% 16V	
C008	1-161-019-00	CERAMIC	0.033MF	10% 25V	
C009	1-130-482-00	MYLAR	0.0082MF	5% 50V	
C010	1-130-482-00	MYLAR	0.0082MF	5% 50V	
C011	1-123-612-00	ELECT	2.2MF	20% 50V	
C012	1-123-612-00	ELECT	2.2MF	20% 50V	
C013	1-123-611-00	ELECT	1MF	20% 50V	
C014	1-123-611-00	ELECT	1MF	20% 50V	
C015	1-123-611-00	ELECT	1MF	20% 50V	
C016	1-123-611-00	ELECT	1MF	20% 50V	
C017	1-123-617-00	ELECT	10MF	20% 16V	
C018	1-123-820-00	ELECT	33MF	20% 16V	
C019	1-161-019-00	CERAMIC	0.033MF	10% 25V	
C020	1-123-820-00	ELECT	33MF	20% 16V	
C021	1-161-019-00	CERAMIC	0.033MF	10% 25V	
C022	1-123-611-00	ELECT	1MF	20% 50V	
C023	1-123-611-00	ELECT	1MF	20% 50V	
C024	1-161-009-00	CERAMIC	0.0047MF	10% 25V	
C026	1-161-039-00	CERAMIC	0.001MF	10% 25V	
C028	1-123-611-00	ELECT	1MF	20% 50V	
C029	1-123-613-00	ELECT	3.3MF	20% 50V	
C030	1-123-820-00	ELECT	33MF	20% 16V	
C031	1-161-019-00	CERAMIC	0.033MF	10% 25V	
C032	1-161-019-00	CERAMIC	0.033MF	10% 25V	
C033	1-123-820-00	ELECT	33MF	20% 16V	
C034	1-161-019-00	CERAMIC	0.033MF	10% 25V	
C035	1-161-021-00	CERAMIC	0.047MF	10% 25V	
C036	1-161-021-00	CERAMIC	0.047MF	10% 25V	
C037	1-161-005-00	CERAMIC	0.0022MF	10% 25V	
C038	1-123-616-00	ELECT	4.7MF	20% 25V	
C039	1-161-019-00	CERAMIC	0.033MF	10% 25V	
C040	1-161-019-00	CERAMIC	0.033MF	10% 25V	
C041	1-123-611-00	ELECT	1MF	20% 50V	
C044	1-161-005-00	CERAMIC	0.0022MF	10% 25V	
C045	1-161-005-00	CERAMIC	0.0022MF	10% 25V	
C301	1-161-021-00	CERAMIC	0.047MF	10% 25V	
C302	1-130-491-00	MYLAR	0.047MF	5% 50V	
C303	1-130-491-00	MYLAR	0.047MF	5% 50V	
C304	1-123-613-00	ELECT	3.3MF	20% 50V	
C305	1-123-613-00	ELECT	3.3MF	20% 50V	
C306	1-123-613-00	ELECT	3.3MF	20% 50V	
C307	1-130-483-00	MYLAR	0.01MF	5% 50V	
C308	1-161-013-00	CERAMIC	0.01MF	10% 25V	
C309	1-130-483-00	MYLAR	0.01MF	5% 50V	
C310	1-123-298-00	ELECT	470MF	20% 6.3V	
C311	1-161-021-00	CERAMIC	0.047MF	10% 25V	
C312	1-161-017-00	CERAMIC	0.022MF	10% 25V	
C317	1-123-611-00	ELECT	1MF	20% 50V	
C318	1-123-618-00	ELECT	22MF	20% 6.3V	
C319	1-123-333-00	ELECT	100MF	20% 16V	
C321	1-123-820-00	ELECT	33MF	20% 16V	
C322	1-123-820-00	ELECT	33MF	20% 16V	
C323	1-161-021-00	CERAMIC	0.047MF	10% 25V	

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description			Remark
C324	1-123-616-00	ELECT	4.7MF	20%	25V
C325	1-130-483-00	MYLAR	0.01MF	5%	50V
C326	1-123-822-00	ELECT	47MF	20%	10V
C327	1-123-612-00	ELECT	2.2MF	20%	50V
C328	1-131-345-00	ELECT(SOLID)	0.47MF	10%	25V
C329	1-161-019-00	CERAMIC	0.033MF	10%	25V
C330	1-123-617-00	ELECT	10MF	20%	16V
C331	1-161-017-00	CERAMIC	0.022MF	10%	25V
C332	1-161-016-00	CERAMIC	0.018MF	10%	25V
C333	1-161-002-00	CERAMIC	0.0012MF	10%	25V
C334	1-161-013-00	CERAMIC	0.01MF	10%	25V
C335	1-130-494-00	MYLAR	0.082MF	5%	50V
C336	1-123-613-00	ELECT	3.3MF	20%	50V
C337	1-102-978-00	CERAMIC	220PF	5%	50V
C338	1-123-297-00	ELECT	330MF	20%	6.3V
C339	1-131-375-00	TANTALUM	4.7MF	20%	10V
C340	1-131-375-00	TANTALUM	4.7MF	20%	10V
C341	1-130-489-00	MYLAR	0.033MF	5%	50V
C342	1-123-622-00	ELECT	22MF	20%	16V
C343	1-123-647-00	ELECT	47MF	20%	6.3V
C344	1-123-661-00	ELECT	100MF	20%	6.3V
C345	1-161-017-00	CERAMIC	0.022MF	10%	25V
C346	1-161-013-00	CERAMIC	0.01MF	10%	25V
C347	1-161-016-00	CERAMIC	0.018MF	10%	25V
C348	1-131-368-00	TANTALUM	3.3MF	20%	16V
C349	1-131-347-00	TANTALUM	1MF	20%	35V
C350	1-123-647-00	ELECT	47MF	20%	6.3V
C351	1-123-612-00	ELECT	2.2MF	20%	50V
C352	1-123-821-00	ELECT	47MF	20%	16V
C353	1-161-013-00	CERAMIC	0.01MF	10%	25V
C354	1-102-114-00	CERAMIC	470PF	10%	50V
C355	1-161-013-00	CERAMIC	0.01MF	10%	25V
C356	1-123-611-00	ELECT	1MF	20%	50V
C357	1-123-616-00	ELECT	4.7MF	20%	25V
C361	1-123-616-00	ELECT	4.7MF	20%	25V
C362	1-123-612-00	ELECT	2.2MF	20%	50V
C370	1-161-021-00	CERAMIC	0.047MF	10%	25V
C371	1-161-021-00	CERAMIC	0.047MF	10%	25V
C373	1-123-616-00	ELECT	4.7MF	20%	25V
C374	1-161-021-00	CERAMIC	0.047MF	10%	25V
C401	1-130-499-00	MYLAR	0.22MF	5%	50V
C402	1-123-616-00	ELECT	4.7MF	20%	25V
C403	1-130-477-00	MYLAR	0.0033MF	5%	50V
C404	1-130-483-00	MYLAR	0.01MF	5%	50V
C405	1-123-298-00	ELECT	470MF	20%	6.3V
C601	1-161-021-00	CERAMIC	0.047MF	10%	25V
C602	1-161-021-00	CERAMIC	0.047MF	10%	25V
C603	1-161-021-00	CERAMIC	0.047MF	10%	25V
C604	1-101-880-00	CERAMIC	47PF	5%	50V
C605	1-101-880-00	CERAMIC	47PF	5%	50V
C606	1-161-021-00	CERAMIC	0.047MF	10%	25V
C607	1-123-611-00	ELECT	1MF	20%	50V
C608	1-123-820-00	ELECT	33MF	20%	16V

Ref.No.	Part No.	Description			Remark
C609	1-123-566-00	ELECT	2200MF	20%	16V
C610	1-161-021-00	CERAMIC	0.047MF	10%	25V
C611	1-161-021-00	CERAMIC	0.047MF	10%	25V
C612	1-161-021-00	CERAMIC	0.047MF	10%	25V
C613	1-123-613-00	ELECT	3.3MF	20%	50V
C614	1-161-021-00	CERAMIC	0.047MF	10%	25V
C615	1-161-021-00	CERAMIC	0.047MF	10%	25V
C616	1-161-021-00	CERAMIC	0.047MF	10%	25V
C617	1-123-617-00	ELECT	10MF	20%	16V
C618	1-123-822-00	ELECT	47MF	20%	10V
C619	1-123-819-00	ELECT	33MF	20%	25V
C620	1-123-819-00	ELECT	33MF	20%	25V
C621	1-161-023-00	CERAMIC	0.068MF	10%	25V
C622	1-123-610-00	ELECT	0.47MF	20%	50V
C623	1-161-021-00	CERAMIC	0.047MF	10%	25V
C624	1-102-951-00	CERAMIC	15PF	5%	50V
C625	1-161-017-00	CERAMIC	0.022MF	10%	25V

CONNECTOR

CN001♣	1-560-466-00	PIN, CONNECTOR 3P
CN002♣	1-560-466-00	PIN, CONNECTOR 3P
CN003♣	1-560-469-00	PIN, CONNECTOR 6P
CN301♣	1-560-467-00	PIN, CONNECTOR 4P
CN302♣	1-560-466-00	PIN, CONNECTOR 3P
CN303♣	1-560-467-00	PIN, CONNECTOR 4P
CN304♣	1-560-456-00	PIN, CONNECTOR 2P
CN305♣	1-560-467-00	PIN, CONNECTOR 4P
CN306♣	1-560-466-00	PIN, CONNECTOR 3P
CN307♣	1-560-467-00	PIN, CONNECTOR 4P
CN308♣	1-560-472-00	PIN, CONNECTOR 12P
CN310♣	1-560-466-00	PIN, CONNECTOR 3P
CN601♣	1-560-468-00	PIN, CONNECTOR 5P
CN602♣	1-560-470-00	PIN, CONNECTOR 8P
CN604♣	1-560-466-00	PIN, CONNECTOR 3P
CN610♣	1-560-470-00	PIN, CONNECTOR 8P
CN612♣	1-560-467-00	PIN, CONNECTOR 4P
CN613♣	1-560-470-00	PIN, CONNECTOR 8P
CN614♣	1-560-468-00	PIN, CONNECTOR 5P
CN616♣	1-560-591-00	PIN, CONNECTOR 7P
CN617♣	1-560-466-00	PIN, CONNECTOR 3P
CN618♣	1-560-466-00	PIN, CONNECTOR 3P
CN619♣	1-560-466-00	PIN, CONNECTOR 3P
CN620♣	1-560-468-00	PIN, CONNECTOR 5P
CN622♣	1-560-591-00	PIN, CONNECTOR 7P
CN623♣	1-560-471-00	PIN, CONNECTOR 10P
CN624♣	1-560-467-00	PIN, CONNECTOR 4P
CN625♣	1-560-470-00	PIN, CONNECTOR 8P
CN626♣	1-560-470-00	PIN, CONNECTOR 8P
CN627♣	1-560-469-00	PIN, CONNECTOR 6P
CN628	1-561-703-00	CONNECTOR, DIN 8P
CN701♣	1-560-471-00	PIN, CONNECTOR 10P

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description	Remark
		DIODE	
D001	8-719-911-06	DIODE 1SS106	
D002	8-719-911-06	DIODE 1SS106	
D003	8-719-911-19	DIODE 1SS119	
D008	8-719-911-19	DIODE 1SS119	
D009	8-719-982-04	DIODE ERB81-004	
D010	8-719-911-19	DIODE 1SS119	
D012	8-719-911-19	DIODE 1SS119	
D013	8-719-982-04	DIODE ERB81-004	
D014	8-719-911-19	DIODE 1SS119	
D015	8-719-911-19	DIODE 1SS119	
D301	8-719-911-06	DIODE 1SS106	
D302	8-719-911-19	DIODE 1SS119	
D303	8-719-982-04	DIODE ERB81-004	
D304	8-719-113-07	DIODE RD13E-B	
D309	8-719-911-19	DIODE 1SS119	
D310	8-719-911-19	DIODE 1SS119	
D311	8-719-911-19	DIODE 1SS119	
D312	8-719-911-19	DIODE 1SS119	
D313	8-719-911-19	DIODE 1SS119	
D314	8-719-911-19	DIODE 1SS119	
D315	8-719-911-19	DIODE 1SS119	
D316	8-719-911-19	DIODE 1SS119	
D317	8-719-911-19	DIODE 1SS119	
D318	8-719-911-19	DIODE 1SS119	
D319	8-719-911-19	DIODE 1SS119	
D401	8-719-911-19	DIODE 1SS119	
D402	8-719-911-19	DIODE 1SS119	
D403	8-719-911-19	DIODE 1SS119	
D602	8-719-911-06	DIODE 1SS106	
D604	8-719-200-02	DIODE 10E-2	
D605	8-719-200-02	DIODE 10E-2	
D606	8-719-200-02	DIODE 10E-2	
D607	8-719-200-02	DIODE 10E-2	
D608	8-719-200-02	DIODE 10E-2	
D611	8-719-200-02	DIODE 10E-2	
D612	8-719-200-02	DIODE 10E-2	
D613	8-719-200-02	DIODE 10E-2	
D614	8-719-200-02	DIODE 10E-2	
D617	8-719-200-02	DIODE 10E-2	
D618	8-719-200-02	DIODE 10E-2	
D619	8-719-200-02	DIODE 10E-2	
D620	8-719-200-02	DIODE 10E-2	
D621	8-719-911-19	DIODE 1SS119	
D622	8-719-100-58	DIODE RD10EB3	
		FUSE	
F001 ⚠	.1-532-610-00	FUSE, TIME LAG T100MMA	
F601 ⚠	.1-532-203-00	FUSE, TIME LAG T2A	
F602 ⚠	.1-532-279-00	FUSE, TIME LAG T500MMA	
F603 ⚠	.1-532-237-00	FUSE, TIME LAG T3.15A	
		IC	
IC001	8-759-103-93	IC UPC393C	
IC002	8-759-132-40	IC UPC324C	
IC003	8-759-132-40	IC UPC324C	
IC004	8-759-103-93	IC UPC393C	
IC005	8-743-980-00	IC BX-3980	
IC006	8-743-976-00	IC BX-3976	
IC301	8-751-941-00	IC CX-194B-0	
IC302	8-741-104-30	IC BX-1043	
IC303	8-743-983-00	IC BX-3983	
IC304	8-759-132-40	IC UPC324C	
IC305	8-759-904-94	IC TL494CN	
IC306	8-743-978-00	IC BX-3978	
IC307	8-759-240-30	IC TC4030BP	
IC308	8-759-240-53	IC TC4053BP	
IC309	8-741-103-90	IC BX-1039	
IC310	8-743-981-00	IC BX-3981	
IC311	8-741-103-80	IC BX-1038	
IC312	8-759-250-26	IC TC5026BP	
IC313	8-759-240-51	IC TC4051BP	
IC314	8-741-013-00	IC BX-1013	
IC601	8-759-906-55	IC MB88401-179M	
IC602	8-759-906-56	IC MB88401-180M	
IC603	8-759-906-57	IC MB88401-181M	
IC604	8-759-103-93	IC UPC393C	
IC605	8-741-104-70	IC BX-1047	
IC606	8-759-220-04	IC TC40H004P	
IC607	8-759-987-58	IC MB8758	
IC608	8-759-240-13	IC TC4013BP	
IC609	8-759-987-58	IC MB8758	
IC610	8-741-101-60	IC BX-1016	
IC611	8-759-240-49	IC TC4049BP	
IC612	8-759-240-69	IC TC4069UBP	
		COIL	
L001	1-408-519-00	COIL, CHOKE	
L002	1-408-519-00	COIL, CHOKE	
L003	1-408-519-00	COIL, CHOKE	
L301	1-408-518-00	COIL, CHOKE	
L302	1-459-232-00	COIL, CORE	
L602	1-407-693-00	MICRO INDUCTOR 10UH	
L611	1-408-418-00	MICRO INDUCTOR 56UH	
L612	1-408-418-00	MICRO INDUCTOR 56UH	
L613	1-408-418-00	MICRO INDUCTOR 56UH	
		TRANSISTOR	
Q001	8-729-117-54	TRANSISTOR 2SA1175	
Q002	8-729-178-54	TRANSISTOR 2SC2785	
Q003	8-729-178-54	TRANSISTOR 2SC2785	
Q004	8-729-178-54	TRANSISTOR 2SC2785	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description	Remark
Q006	8-729-178-54	TRANSISTOR 2SC2785	
Q007	8-729-178-54	TRANSISTOR 2SC2785	
Q008	8-729-117-54	TRANSISTOR 2SA1175	
Q009	8-729-178-54	TRANSISTOR 2SC2785	
Q010	8-729-178-54	TRANSISTOR 2SC2785	
Q011	8-729-178-54	TRANSISTOR 2SC2785	
Q012	8-729-178-54	TRANSISTOR 2SC2785	
Q013	8-729-178-54	TRANSISTOR 2SC2785	
Q014	8-729-178-54	TRANSISTOR 2SC2785	
Q015	8-729-178-54	TRANSISTOR 2SC2785	
Q016	8-729-117-54	TRANSISTOR 2SA1175	
Q017	8-729-113-33	TRANSISTOR 2SB733-4	
Q018	8-729-113-33	TRANSISTOR 2SB733-4	
Q019	8-729-178-54	TRANSISTOR 2SC2785	
Q020	8-729-178-54	TRANSISTOR 2SC2785	
Q021	8-729-178-54	TRANSISTOR 2SC2785	
Q022	8-729-178-54	TRANSISTOR 2SC2785	
Q023	8-729-178-54	TRANSISTOR 2SC2785	
Q024	8-729-117-54	TRANSISTOR 2SA1175	
Q025	8-729-113-33	TRANSISTOR 2SB733-4	
Q026	8-729-113-33	TRANSISTOR 2SB733-4	
Q027	8-729-178-54	TRANSISTOR 2SC2785	
Q028	8-729-178-54	TRANSISTOR 2SC2785	
Q029	8-729-178-54	TRANSISTOR 2SC2785	
Q030	8-729-117-54	TRANSISTOR 2SA1175	
Q031	8-729-117-54	TRANSISTOR 2SA1175	
Q032	8-729-117-54	TRANSISTOR 2SA1175	
Q301	8-729-178-54	TRANSISTOR 2SC2785	
Q302	8-729-177-32	TRANSISTOR 2SD773-4	
Q303 ⚠	8-729-117-54	TRANSISTOR 2SA1175	
Q304 ⚠	8-729-113-33	TRANSISTOR 2SB733-4	
Q305	8-729-178-54	TRANSISTOR 2SC2785	
Q307	8-729-178-54	TRANSISTOR 2SC2785	
Q309	8-729-117-54	TRANSISTOR 2SA1175	
Q310	8-729-117-54	TRANSISTOR 2SA1175	
Q311	8-729-178-54	TRANSISTOR 2SC2785	
Q314	8-729-178-54	TRANSISTOR 2SC2785	
Q315	8-729-178-54	TRANSISTOR 2SC2785	
Q317	8-729-178-54	TRANSISTOR 2SC2785	
Q318	8-729-117-54	TRANSISTOR 2SA1175	
Q320	8-729-117-54	TRANSISTOR 2SA1175	
Q321	8-729-117-54	TRANSISTOR 2SA1175	
Q322	8-729-117-54	TRANSISTOR 2SA1175	
Q324	8-729-178-54	TRANSISTOR 2SC2785	
Q325	8-729-178-54	TRANSISTOR 2SC2785	
Q328	8-729-178-54	TRANSISTOR 2SC2785	
Q329	8-729-178-54	TRANSISTOR 2SC2785	
Q330	8-729-117-54	TRANSISTOR 2SA1175	
Q331	8-729-117-54	TRANSISTOR 2SA1175	
Q332	8-729-178-54	TRANSISTOR 2SC2785	
Q333	8-729-117-54	TRANSISTOR 2SA1175	
Q601	8-729-177-23	TRANSISTOR 2SB772	

Ref.No.	Part No.	Description	Remark
Q602	8-729-178-54	TRANSISTOR 2SC2785	
Q603	8-729-178-54	TRANSISTOR 2SC2785	
Q604	8-729-178-54	TRANSISTOR 2SC2785	
Q605	8-729-178-54	TRANSISTOR 2SC2785	
Q606	8-729-178-54	TRANSISTOR 2SC2785	
Q607	8-729-178-54	TRANSISTOR 2SC2785	
Q608	8-729-178-54	TRANSISTOR 2SC2785	
Q609	8-729-178-54	TRANSISTOR 2SC2785	
Q610	8-729-178-54	TRANSISTOR 2SC2785	
Q611	8-729-117-54	TRANSISTOR 2SA1175	
Q612	8-729-116-42	TRANSISTOR 2SD1164	
Q613	8-729-116-42	TRANSISTOR 2SD1164	
Q614	8-729-116-42	TRANSISTOR 2SD1164	
Q615	8-729-116-42	TRANSISTOR 2SD1164	
Q616	8-729-178-54	TRANSISTOR 2SC2785	
Q617	8-729-113-33	TRANSISTOR 2SB733-4	
Q618	8-729-177-32	TRANSISTOR 2SD773-4	
Q619	8-729-113-33	TRANSISTOR 2SB733-4	
Q620	8-729-177-32	TRANSISTOR 2SD773-4	
Q621	8-729-178-54	TRANSISTOR 2SC2785	
Q622	8-729-178-54	TRANSISTOR 2SC2785	
Q623	8-729-113-33	TRANSISTOR 2SB733-4	
Q624	8-729-177-32	TRANSISTOR 2SD773-4	
Q625	8-729-113-33	TRANSISTOR 2SB733-4	
Q626	8-729-177-32	TRANSISTOR 2SD773-4	
Q627	8-729-178-54	TRANSISTOR 2SC2785	
Q628	8-729-178-54	TRANSISTOR 2SC2785	
Q629	8-729-178-54	TRANSISTOR 2SC2785	
Q630	8-729-178-54	TRANSISTOR 2SC2785	
Q631	8-729-178-54	TRANSISTOR 2SC2785	
Q632	8-729-178-54	TRANSISTOR 2SC2785	

RESISTOR

R001	1-246-789-00	CARBON	3.3K	1/8W
R002	1-246-789-00	CARBON	3.3K	1/8W
R011	1-246-803-00	CARBON	47K	1/8W
R014	1-247-055-00	CARBON	300K	1/8W
R015	1-246-809-00	CARBON	150K	1/8W
R016	1-246-807-00	CARBON	100K	1/8W
R017	1-246-803-00	CARBON	47K	1/8W
R018	1-246-799-00	CARBON	22K	1/8W
R020	1-246-799-00	CARBON	22K	1/8W
R021	1-246-803-00	CARBON	47K	1/8W
R022	1-246-794-00	CARBON	8.2K	1/8W
R023	1-246-785-00	CARBON	1.5K	1/8W
R024	1-246-790-00	CARBON	3.9K	1/8W
R025	1-246-849-00	CARBON	3K	1/8W
R026	1-246-798-00	CARBON	18K	1/8W
R027	1-246-783-00	CARBON	1K	1/8W
R028	1-246-853-00	CARBON	6.2K	1/8W
R029	1-246-792-00	CARBON	5.6K	1/8W
R030	1-246-803-00	CARBON	47K	1/8W

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description				Remark
R031	1-246-791-00	CARBON	4.7K		1/8W	
R032	1-246-803-00	CARBON	47K		1/8W	
R035	1-246-803-00	CARBON	47K		1/8W	
R037	1-246-783-00	CARBON	1K		1/8W	
R038	1-246-799-00	CARBON	22K		1/8W	
R041	1-246-799-00	CARBON	22K		1/8W	
R042	1-246-799-00	CARBON	22K		1/8W	
R043	1-246-795-00	CARBON	10K		1/8W	
R044	1-246-803-00	CARBON	47K		1/8W	
R045	1-246-449-00	CARBON	100	5%	1/4W	
R046	1-246-457-00	CARBON	220	5%	1/4W	
R055	1-244-861-00	CARBON	330	5%	1/2W	
R056	1-246-783-00	CARBON	1K		1/8W	
R057 ⚠	1-217-612-00	WIREWOUND	0.1		2W	
R058	1-246-801-00	CARBON	33K		1/8W	
R059	1-246-801-00	CARBON	33K		1/8W	
R060	1-246-860-00	CARBON	24K		1/8W	
R061	1-246-800-00	CARBON	27K		1/8W	
R064	1-247-049-00	CARBON	470K		1/8W	
R068	1-246-795-00	CARBON	10K		1/8W	
R071	1-247-057-00	CARBON	430K		1/8W	
R073	1-246-795-00	CARBON	10K		1/8W	
R074	1-246-799-00	CARBON	22K		1/8W	
R075	1-246-855-00	CARBON	9.1K		1/8W	
R080	1-246-783-00	CARBON	1K		1/8W	
R081	1-246-807-00	CARBON	100K		1/8W	
R082	1-247-049-00	CARBON	470K		1/8W	
R083	1-246-791-00	CARBON	4.7K		1/8W	
R084	1-246-791-00	CARBON	4.7K		1/8W	
R085	1-246-799-00	CARBON	22K		1/8W	
R089	1-246-795-00	CARBON	10K		1/8W	
R090	1-247-049-00	CARBON	470K		1/8W	
R091	1-246-807-00	CARBON	100K		1/8W	
R093	1-246-803-00	CARBON	47K		1/8W	
R094	1-246-795-00	CARBON	10K		1/8W	
R095	1-246-449-00	CARBON	100	5%	1/4W	
R096	1-246-457-00	CARBON	220	5%	1/4W	
R103	1-244-861-00	CARBON	330	5%	1/2W	
R106	1-246-783-00	CARBON	1K		1/8W	
R108	1-246-803-00	CARBON	47K		1/8W	
R110	1-246-811-00	CARBON	220K		1/8W	
R111	1-246-803-00	CARBON	47K		1/8W	
R113	1-246-803-00	CARBON	47K		1/8W	
R114	1-246-803-00	CARBON	47K		1/8W	
R115	1-246-801-00	CARBON	33K		1/8W	
R116	1-246-847-00	CARBON	2K		1/8W	
R117	1-246-799-00	CARBON	22K		1/8W	
R118	1-246-799-00	CARBON	22K		1/8W	
R119	1-246-803-00	CARBON	47K		1/8W	
R120	1-246-803-00	CARBON	47K		1/8W	
R121	1-246-803-00	CARBON	47K		1/8W	
R122	1-246-803-00	CARBON	47K		1/8W	
R301	1-246-799-00	CARBON	22K		1/8W	

Ref.No.	Part No.	Description				Remark
R302	1-246-801-00	CARBON	33K		1/8W	
R303	1-246-797-00	CARBON	15K		1/8W	
R304	1-214-144-00	METAL	3.3K		1/8W	
R305	1-246-787-00	CARBON	2.2K		1/8W	
R306	1-246-783-00	CARBON	1K		1/8W	
R310	1-246-795-00	CARBON	10K		1/8W	
R311	1-246-795-00	CARBON	10K		1/8W	
R312	1-246-795-00	CARBON	10K		1/8W	
R313	1-246-783-00	CARBON	1K		1/8W	
R314	1-246-803-00	CARBON	47K		1/8W	
R315	1-246-791-00	CARBON	4.7K		1/8W	
R316	1-246-805-00	CARBON	68K		1/8W	
R317	1-246-803-00	CARBON	47K		1/8W	
R318	1-246-852-00	CARBON	5.1K		1/8W	
R321	1-246-783-00	CARBON	1K		1/8W	
R322 ⚠	1-212-356-00	METAL	0.47	5%	1W	F
R323	1-246-799-00	CARBON	22K		1/8W	
R327	1-246-797-00	CARBON	15K		1/8W	
R329 ⚠	1-212-850-00	FUSIBLE	5.1	5%	1/4W	F
R330	1-246-795-00	CARBON	10K		1/8W	
R331	1-246-809-00	CARBON	150K		1/8W	
R334	1-246-801-00	CARBON	33K		1/8W	
R337	1-246-801-00	CARBON	33K		1/8W	
R338	1-246-809-00	CARBON	150K		1/8W	
R339	1-246-810-00	CARBON	180K		1/8W	
R340	1-246-788-00	CARBON	2.7K		1/8W	
R342	1-246-801-00	CARBON	33K		1/8W	
R344	1-246-801-00	CARBON	33K		1/8W	
R345	1-246-801-00	CARBON	33K		1/8W	
R346	1-246-807-00	CARBON	100K		1/8W	
R347	1-246-806-00	CARBON	82K		1/8W	
R348	1-246-801-00	CARBON	33K		1/8W	
R349	1-214-140-00	METAL	2.2K	1%	1/4W	
R349	1-214-737-41	METAL	2.2K	1%	1/4W	
R350	1-214-140-00	METAL	2.2K	1%	1/4W	
R350	1-214-737-41	METAL	2.2K	1%	1/4W	
R351	1-214-140-00	METAL	2.2K	1%	1/4W	
R351	1-214-737-41	METAL	2.2K	1%	1/4W	
R352	1-214-140-00	METAL	2.2K	1%	1/4W	
R352	1-214-737-41	METAL	2.2K	1%	1/4W	
R354	1-246-795-00	CARBON	10K		1/8W	
R355	1-246-795-00	CARBON	10K		1/8W	
R358	1-246-803-00	CARBON	47K		1/8W	
R364	1-246-805-00	CARBON	68K		1/8W	
R366	1-246-858-00	CARBON	16K		1/8W	
R369	1-246-862-00	CARBON	36K		1/8W	
R370	1-246-801-00	CARBON	33K		1/8W	
R371	1-246-795-00	CARBON	10K		1/8W	
R373	1-246-783-00	CARBON	1K		1/8W	
R374	1-246-804-00	CARBON	56K		1/8W	
R375	1-246-795-00	CARBON	10K		1/8W	
R377	1-246-795-00	CARBON	10K		1/8W	
R378	1-246-799-00	CARBON	22K		1/8W	

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When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description			Remark
R381	1-246-783-00	CARBON	1K	1/8W	
R382	1-246-795-00	CARBON	10K	1/8W	
R387	1-246-795-00	CARBON	10K	1/8W	
R390	1-246-851-00	CARBON	4.3K	1/8W	
R394	1-246-801-00	CARBON	33K	1/8W	
R395	1-246-804-00	CARBON	56K	1/8W	
R396	1-246-810-00	CARBON	180K	1/8W	
R397	1-246-801-00	CARBON	33K	1/8W	
R398	1-246-801-00	CARBON	33K	1/8W	
R399	1-246-837-00	CARBON	300	1/8W	
R400	1-246-795-00	CARBON	10K	1/8W	
R401	1-246-457-00	CARBON	220 5%	1/4W	
R404	1-246-801-00	CARBON	33K	1/8W	
R407	1-246-803-00	CARBON	47K	1/8W	
R408	1-247-049-00	CARBON	470K	1/8W	
R409	1-246-807-00	CARBON	100K	1/8W	
R410	1-247-051-00	CARBON	680K	1/8W	
R411	1-246-803-00	CARBON	47K	1/8W	
R412	1-246-795-00	CARBON	10K	1/8W	
R413	1-246-792-00	CARBON	5.6K	1/8W	
R414	1-246-792-00	CARBON	5.6K	1/8W	
R416	1-246-799-00	CARBON	22K	1/8W	
R417	1-246-783-00	CARBON	1K	1/8W	
R451	1-247-047-00	CARBON	330K	1/8W	
R452	1-246-797-00	CARBON	15K	1/8W	
R453	1-247-054-00	CARBON	240K	1/8W	
R460	1-246-795-00	CARBON	10K	1/8W	
R468	1-246-791-00	CARBON	4.7K	1/8W	
R473	1-246-803-00	CARBON	47K	1/8W	
R474	1-246-792-00	CARBON	5.6K	1/8W	
R476	1-246-803-00	CARBON	47K	1/8W	
R477	1-246-803-00	CARBON	47K	1/8W	
R478	1-246-803-00	CARBON	47K	1/8W	
R479	1-246-807-00	CARBON	100K	1/8W	
R480	1-246-803-00	CARBON	47K	1/8W	
R481	1-246-803-00	CARBON	47K	1/8W	
R482	1-246-803-00	CARBON	47K	1/8W	
R483	1-246-799-00	CARBON	22K	1/8W	
R484	1-246-791-00	CARBON	4.7K	1/8W	
R485	1-246-803-00	CARBON	47K	1/8W	
R486	1-246-803-00	CARBON	47K	1/8W	
R487	1-246-795-00	CARBON	10K	1/8W	
R488	1-246-800-00	CARBON	27K	1/8W	
R489	1-246-845-00	CARBON	1.3K	1/8W	
R490	1-246-856-00	CARBON	11K	1/8W	
R491	1-246-788-00	CARBON	2.7K	1/8W	
R495 ⚠	1-206-482-00	METAL	62 5%	2W F	
R496	1-246-779-00	CARBON	470	1/8W	
R498	1-246-803-00	CARBON	47K	1/8W	
R501	1-246-852-00	CARBON	5.1K	1/8W	
R502	1-246-791-00	CARBON	4.7K	1/8W	

Ref.No.	Part No.	Description			Remark
R503	1-246-759-00	CARBON	10	1/8W	
R511	1-246-783-00	CARBON	1K	1/8W	
R512	1-246-807-00	CARBON	100K	1/8W	
R513	1-246-807-00	CARBON	100K	1/8W	
R514	1-246-803-00	CARBON	47K	1/8W	
R515	1-214-164-00	METAL	22K 1%	1/4W	
R515	1-214-761-41	METAL	22K 1%	1/4W	
R516	1-246-807-00	CARBON	100K	1/8W	
R517	1-246-803-00	CARBON	47K	1/8W	
R518	1-246-803-00	CARBON	47K	1/8W	
R519	1-246-795-00	CARBON	10K	1/8W	
R520	1-246-807-00	CARBON	100K	1/8W	
R521	1-246-803-00	CARBON	47K	1/8W	
R522	1-246-795-00	CARBON	10K	1/8W	
R523	1-246-795-00	CARBON	10K	1/8W	
R524	1-246-803-00	CARBON	47K	1/8W	
R525	1-246-795-00	CARBON	10K	1/8W	
R526	1-246-795-00	CARBON	10K	1/8W	
R527	1-246-803-00	CARBON	47K	1/8W	
R529	1-246-805-00	CARBON	68K	1/8W	
R530 ⚠	1-532-605-00	PROTECTOR, CIRCUIT			
R531	1-246-811-00	CARBON	220K	1/8W	
R532	1-246-871-00	CARBON	200K	1/8W	
R547	1-246-807-00	CARBON	100K	1/8W	
R548	1-246-795-00	CARBON	10K	1/8W	
R603	1-246-799-00	CARBON	22K	1/8W	
R605	1-246-807-00	CARBON	100K	1/8W	
R607	1-246-807-00	CARBON	100K	1/8W	
R610	1-246-791-00	CARBON	4.7K	1/8W	
R611	1-246-803-00	CARBON	47K	1/8W	
R612	1-246-791-00	CARBON	4.7K	1/8W	
R613	1-246-791-00	CARBON	4.7K	1/8W	
R614	1-246-791-00	CARBON	4.7K	1/8W	
R615	1-246-803-00	CARBON	47K	1/8W	
R616	1-246-803-00	CARBON	47K	1/8W	
R617	1-246-803-00	CARBON	47K	1/8W	
R618	1-246-803-00	CARBON	47K	1/8W	
R619	1-246-803-00	CARBON	47K	1/8W	
R620	1-247-049-00	CARBON	470K	1/8W	
R621	1-246-803-00	CARBON	47K	1/8W	
R622	1-246-803-00	CARBON	47K	1/8W	
R623	1-246-803-00	CARBON	47K	1/8W	
R624	1-246-803-00	CARBON	47K	1/8W	
R625	1-246-797-00	CARBON	15K	1/8W	
R626	1-246-795-00	CARBON	10K	1/8W	
R627	1-246-789-00	CARBON	3.3K	1/8W	
R628	1-246-783-00	CARBON	1K	1/8W	
R629	1-246-783-00	CARBON	1K	1/8W	
R630	1-246-783-00	CARBON	1K	1/8W	
R631	1-246-783-00	CARBON	1K	1/8W	
R632	1-246-791-00	CARBON	4.7K	1/8W	
R633	1-246-787-00	CARBON	2.2K	1/8W	
R634	1-246-787-00	CARBON	2.2K	1/8W	
R635	1-246-793-00	CARBON	6.8K	1/8W	
R636	1-246-791-00	CARBON	4.7K	1/8W	
R637	1-246-783-00	CARBON	1K	1/8W	
R638	1-246-783-00	CARBON	1K	1/8W	

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Ref.No.	Part No.	Description			Remark
R640	1-246-795-00	CARBON	10K	1/8W	
R641	1-246-859-00	CARBON	20K	1/8W	
R643	1-246-783-00	CARBON	1K	1/8W	
R644	1-246-803-00	CARBON	47K	1/8W	
R645	1-246-801-00	CARBON	33K	1/8W	
R646 ⚠	1-247-587-00	CARBON	0.47 5%	1/4W	
R649	1-246-807-00	CARBON	100K	1/8W	
R654	1-246-807-00	CARBON	100K	1/8W	
R659	1-246-807-00	CARBON	100K	1/8W	
R664	1-246-807-00	CARBON	100K	1/8W	
R667	1-246-795-00	CARBON	10K	1/8W	
R668	1-246-799-00	CARBON	22K	1/8W	
R670	1-246-807-00	CARBON	100K	1/8W	
R671	1-247-058-00	CARBON	510K	1/8W	
R672	1-246-858-00	CARBON	16K	1/8W	
R673	1-246-798-00	CARBON	18K	1/8W	
R674 ⚠	1-206-640-00	METAL	100 5%	2W F	
R675 ⚠	1-206-640-00	METAL	100 5%	2W F	
R676	1-246-783-00	CARBON	1K	1/8W	
R677	1-246-795-00	CARBON	10K	1/8W	
R678	1-246-783-00	CARBON	1K	1/8W	
R679	1-246-807-00	CARBON	100K	1/8W	
R680	1-246-794-00	CARBON	8.2K	1/8W	
R681	1-246-795-00	CARBON	10K	1/8W	
R682	1-246-803-00	CARBON	47K	1/8W	
R683	1-246-803-00	CARBON	47K	1/8W	
R685	1-246-803-00	CARBON	47K	1/8W	
R686	1-246-803-00	CARBON	47K	1/8W	
R688	1-246-803-00	CARBON	47K	1/8W	

VARIABLE RESISTOR

RV001	1-226-774-00	RES, ADJ, METAL GLAZE	47K
RV002	1-226-773-00	RES, ADJ, METAL GLAZE	22K
RV301	1-226-753-00	RES, ADJ, SOLID	47K
RV302	1-224-254-XX	RES, ADJ, METAL GLAZE	47K
RV303	1-226-771-00	RES, ADJ, METAL GLAZE	1K
RV304	1-226-753-00	RES, ADJ, SOLID	47K
RV305	1-226-774-00	RES, ADJ, METAL GLAZE	47K
RV307	1-226-703-00	RES, ADJ, METAL GLAZE	10K
RV309	1-226-703-00	RES, ADJ, METAL GLAZE	10K
RV310	1-226-703-00	RES, ADJ, METAL GLAZE	10K
RV314	1-226-775-00	RES, ADJ, METAL GLAZE	100K
RV315	1-226-701-00	RES, ADJ, METAL GLAZE	220
RV316	1-226-701-00	RES, ADJ, METAL GLAZE	220
RV317	1-226-713-00	RES, ADJ, SOLID	100K
RV318	1-226-702-00	RES, ADJ, METAL GLAZE	4.7K
RV319	1-226-704-00	RES, ADJ, METAL GLAZE	470K

THERMISTOR

TH001	1-800-200-00	THERMISTOR S-3K
TH301	1-800-200-00	THERMISTOR S-3K

CRYSTAL

X601	1-527-726-00	VIBRATOR, CRYSTAL

Ref.No.	Part No.	Description	Remark
♦	A-6715-154-A	JR-1 BOARD, COMPLETE(SL-C9E) AEP MODEL **********	
♦	A-6715-166-A	JR-1 BOARD, COMPLETE(SL-C9UB) UK MODEL **********	

CAPACITOR

C001	1-123-306-00	ELECT	47MF	20%	10V
C002	1-123-328-00	ELECT	4.7MF	20%	25V
C003	1-123-316-00	ELECT	10MF	20%	16V
C004	1-108-563-00	MYLAR	0.0022MF	5%	50V
C005	1-161-013-00	CERAMIC	0.01MF	10%	25V
C006	1-123-316-00	ELECT	10MF	20%	16V
C007	1-108-611-00	MYLAR	0.22MF	5%	50V
C008	1-123-316-00	ELECT	10MF	20%	16V
C009	1-123-316-00	ELECT	10MF	20%	16V
C010	1-161-001-00	CERAMIC	0.001MF	10%	25V
C011	1-127-449-00	ELECT(SOLID)	0.22MF	10%	25V
C012	1-102-126-00	CERAMIC	0.0056MF	10%	50V
C013	1-123-328-00	ELECT	4.7MF	20%	25V
C014	1-161-013-00	CERAMIC	0.01MF	10%	25V
C015	1-123-306-00	ELECT	47MF	20%	10V
C016	1-123-305-00	ELECT	33MF	20%	10V
C017	1-123-316-00	ELECT	10MF	20%	16V
C018	1-123-316-00	ELECT	10MF	20%	16V
C019	1-123-316-00	ELECT	10MF	20%	16V
C020	1-123-316-00	ELECT	10MF	20%	16V
C021	1-102-118-00	CERAMIC	0.0012MF	10%	50V
C022	1-123-316-00	ELECT	10MF	20%	16V
C023	1-123-316-00	ELECT	10MF	20%	16V
C024	1-127-448-00	ELECT(SOLID)	0.15	10%	25V
C025	1-130-026-00	FILM	0.0047MF	5%	50V
C026	1-130-022-00	FILM	0.0022MF	5%	50V
C027	1-123-317-00	ELECT	22MF	20%	16V
C028	1-123-306-00	ELECT	47MF	20%	10V
C029	1-161-013-00	CERAMIC	0.01MF	10%	25V
C030	1-127-449-11	ELECT(SOLID)	0.22MF	10%	25V
C031	1-161-013-00	CERAMIC	0.01MF	10%	25V
C032	1-123-295-00	ELECT	100MF	20%	6.3V
C033	1-108-562-00	MYLAR	0.002MF	5%	50V
C034	1-108-562-00	MYLAR	0.002MF	5%	50V
C037	1-123-306-00	ELECT	47MF	20%	10V
C038	1-108-601-00	MYLAR	0.082MF	5%	50V
C040	1-123-306-00	ELECT	47MF	20%	10V
C041	1-123-354-00	ELECT	3.3MF	20%	50V
C042	1-161-017-00	CERAMIC	0.022MF	10%	25V
C043	1-108-563-00	MYLAR	0.0022MF	5%	50V
C044	1-123-316-00	ELECT	10MF	20%	16V
C047	1-123-316-00	ELECT	10MF	20%	16V
C048	1-108-595-00	MYLAR	0.047MF	5%	50V
C049	1-127-452-11	ELECT(SOLID)	0.68MF	10%	25V
C050	1-127-453-00	ELECT(SOLID)	1MF	10%	25V
C051	1-123-295-00	ELECT	100MF	20%	6.3V

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Ref.No.	Part No.	Description			Remark
C052	1-161-017-00	CERAMIC	0.022MF	10%	25V
C053	1-127-447-00	ELECT(SOLID)	0.1MF	10%	25V
C054	1-127-450-11	ELECT(SOLID)	0.33MF	10%	25V
C055	1-127-450-11	ELECT(SOLID)	0.33MF	10%	25V
C203	1-102-978-00	CERAMIC	220PF	5%	50V
C204	1-102-978-00	CERAMIC	220PF	5%	50V
C205	1-123-352-00	ELECT	1MF	20%	50V
C206	1-161-013-00	CERAMIC	0.01MF	10%	25V
C207	1-161-001-00	CERAMIC	0.001MF	10%	25V
C208	1-123-319-00	ELECT	47MF	20%	16V
C209	1-161-001-00	CERAMIC	0.001MF	10%	25V
C501	1-161-021-00	CERAMIC	0.047MF	10%	25V
C502	1-123-317-00	ELECT	22MF	20%	16V
C503	1-102-978-00	CERAMIC	220PF	5%	50V
C504	1-102-978-00	CERAMIC	220PF	5%	50V

CONNECTOR

CN001♣:	1-560-470-00	PIN, CONNECTOR	8P
CN002♣:	1-560-472-00	PIN, CONNECTOR	12P
CN003♣:	1-560-591-00	PIN, CONNECTOR	7P
CN004♣:	1-560-466-00	PIN, CONNECTOR	3P
CN201♣:	1-560-466-00	PIN, CONNECTOR	3P
CN202♣:	1-560-466-00	PIN, CONNECTOR	3P
CN203♣:	1-560-468-00	PIN, CONNECTOR	5P
CN204♣:	1-560-470-00	PIN, CONNECTOR	8P
CN501♣:	1-560-591-00	PIN, CONNECTOR	7P
CN502♣:	1-560-471-00	PIN, CONNECTOR	10P

DIODE

D001	8-719-911-19	DIODE 1SS119
D002	8-719-911-19	DIODE 1SS119
D003	8-719-911-19	DIODE 1SS119
D004	8-719-911-19	DIODE 1SS119
D005	8-719-911-19	DIODE 1SS119
D006	8-719-911-19	DIODE 1SS119
D007	8-719-911-19	DIODE 1SS119
D008	8-719-911-19	DIODE 1SS119
D009	8-719-911-19	DIODE 1SS119
D010	8-719-911-19	DIODE 1SS119
D011	8-719-911-19	DIODE 1SS119
D012	8-719-911-19	DIODE 1SS119
D013	8-719-911-19	DIODE 1SS119
D014	8-719-911-19	DIODE 1SS119
D015	8-719-911-19	DIODE 1SS119
D019	8-719-911-19	DIODE 1SS119
D020	8-719-911-19	DIODE 1SS119
D021	8-719-911-19	DIODE 1SS119
D022	8-719-911-19	DIODE 1SS119
D023	8-719-911-19	DIODE 1SS119
D201	8-719-102-90	DIODE RD10E-N2
D202	8-719-182-07	DIODE RD8.2E-B
D203	8-719-110-07	DIODE RD10E-B
D204	8-719-911-19	DIODE 1SS119
D301	8-719-200-02	DIODE 10E-2(AEP MODEL)
D501	8-719-130-07	DIODE RD3.0E-B

Ref.No.	Part No.	Description	Remark

IC

IC001	8-759-132-40	IC UPC324C
IC002	8-759-132-40	IC UPC324C
IC003	8-759-132-40	IC UPC324C
IC004	8-759-240-30	IC TC4030BP
IC005	8-759-979-27	IC CX-7927
IC006	8-759-240-66	IC TC4066BP
IC007	8-759-240-13	IC TC4013BP
IC008	8-759-240-81	IC TC4081BP
IC009=>	8-759-345-38	IC HD14538BP
IC010	8-759-240-11	IC TC4011BP
IC011	8-759-240-11	IC TC4011BP
IC012	8-759-240-81	IC TC4081BP
IC013	8-759-240-11	IC TC4011BP
IC201	8-759-300-27	IC HD38757A05
IC501	8-759-100-80	IC UPD652C040

TRANSISTOR

Q001	8-729-117-54	TRANSISTOR 2SA1175
Q003	8-729-178-54	TRANSISTOR 2SC2785
Q004	8-729-178-54	TRANSISTOR 2SC2785
Q006	8-729-178-54	TRANSISTOR 2SC2785
Q007	8-729-117-54	TRANSISTOR 2SA1175
Q008	8-729-178-54	TRANSISTOR 2SC2785
Q009	8-729-178-54	TRANSISTOR 2SC2785
Q010	8-729-117-54	TRANSISTOR 2SA1175
Q016	8-729-178-54	TRANSISTOR 2SC2785
Q017	8-729-178-54	TRANSISTOR 2SC2785
Q018	8-729-178-54	TRANSISTOR 2SC2785
Q021	8-729-178-54	TRANSISTOR 2SC2785
Q022	8-729-117-54	TRANSISTOR 2SA1175
Q024	8-729-178-54	TRANSISTOR 2SC2785
Q025	8-729-178-54	TRANSISTOR 2SC2785
Q030	8-729-178-54	TRANSISTOR 2SC2785
Q031	8-729-117-54	TRANSISTOR 2SA1175
Q032	8-729-178-54	TRANSISTOR 2SC2785
Q035	8-729-117-54	TRANSISTOR 2SA1175
Q036	8-729-117-54	TRANSISTOR 2SA1175
Q201	8-729-117-54	TRANSISTOR 2SA1175
Q202	8-729-178-54	TRANSISTOR 2SC2785
Q205	8-729-178-54	TRANSISTOR 2SC2785
Q206	8-729-178-54	TRANSISTOR 2SC2785
Q301	8-729-103-43	TRANSISTOR 2SB734(AEP MODEL)
Q302	8-729-178-54	TRANSISTOR 2SC2785(AEP MODEL)
Q501	8-729-178-54	TRANSISTOR 2SC2785
Q502	8-729-178-54	TRANSISTOR 2SC2785
Q503	8-729-178-54	TRANSISTOR 2SC2785
Q504	8-729-178-54	TRANSISTOR 2SC2785
Q505	8-729-178-54	TRANSISTOR 2SC2785
Q506	8-729-178-54	TRANSISTOR 2SC2785
Q507	8-729-178-54	TRANSISTOR 2SC2785

RESISTOR

R001	1-246-803-00	CARBON	47K	1/8W

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description			Remark
R002	1-246-803-00	CARBON	47K	1/8W	
R003	1-214-154-00	METAL	8.2K 1%	1/4W	
R004	1-214-156-00	METAL	10K 1%	1/4W	
R005	1-246-791-00	CARBON	4.7K	1/8W	
R006	1-247-053-00	CARBON	1M	1/8W	
R007	1-246-791-00	CARBON	4.7K	1/8W	
R008	1-247-053-00	CARBON	1M	1/8W	
R009	1-246-791-00	CARBON	4.7K	1/8W	
R010	1-247-053-00	CARBON	1M	1/8W	
R011	1-246-791-00	CARBON	4.7K	1/8W	
R012	1-247-053-00	CARBON	1M	1/8W	
R013	1-246-792-00	CARBON	5.6K	1/8W	
R014	1-246-799-00	CARBON	22K	1/8W	
R015	1-246-803-00	CARBON	47K	1/8W	
R017	1-246-852-00	CARBON	5.1K	1/8W	
R020	1-246-846-00	CARBON	1.6K	1/8W	
R021	1-246-851-00	CARBON	4.3K	1/8W	
R022	1-246-807-00	CARBON	100K	1/8W	
R023	1-246-864-00	CARBON	51K	1/8W	
R024	1-246-807-00	CARBON	100K	1/8W	
R025	1-246-807-00	CARBON	100K	1/8W	
R026	1-246-795-00	CARBON	10K	1/8W	
R027	1-246-807-00	CARBON	100K	1/8W	
R028	1-246-807-00	CARBON	100K	1/8W	
R029	1-246-807-00	CARBON	100K	1/8W	
R030	1-246-807-00	CARBON	100K	1/8W	
R032	1-246-781-00	CARBON	680	1/8W	
R034	1-246-795-00	CARBON	10K	1/8W	
R035	1-246-795-00	CARBON	10K	1/8W	
R036	1-246-795-00	CARBON	10K	1/8W	
R039	1-214-156-00	METAL	10K 1%	1/4W	
R040	1-214-171-00	METAL	43K 1%	1/4W	
R041	1-246-803-00	CARBON	47K	1/8W	
R042	1-214-129-00	METAL	750 1%	1/4W	
R043	1-247-053-00	CARBON	1M	1/8W	
R044	1-247-053-00	CARBON	1M	1/8W	
R045	1-246-765-00	CARBON	33	1/8W	
R047	1-246-807-00	CARBON	100K	1/8W	
R048	1-246-844-00	CARBON	1.1K	1/8W	
R049	1-246-846-00	CARBON	1.6K	1/8W	
R050	1-246-846-00	CARBON	1.6K	1/8W	
R051	1-246-791-00	CARBON	4.7K	1/8W	
R052	1-246-791-00	CARBON	4.7K	1/8W	
R053	1-246-801-00	CARBON	33K	1/8W	
R054	1-247-053-00	CARBON	1M	1/8W	
R055	1-247-053-00	CARBON	1M	1/8W	
R058	1-246-792-00	CARBON	5.6K	1/8W	
R060	1-246-803-00	CARBON	47K	1/8W	
R061	1-246-800-00	CARBON	27K	1/8W	
R062	1-246-803-00	CARBON	47K	1/8W	
R063	1-246-783-00	CARBON	1K	1/8W	
R064	1-246-783-00	CARBON	1K	1/8W	
R065	1-246-783-00	CARBON	1K	1/8W	

Ref.No.	Part No.	Description			Remark
R066	1-246-804-00	CARBON	56K	1/8W	
R067	1-246-804-00	CARBON	56K	1/8W	
R068	1-246-807-00	CARBON	100K	1/8W	
R069	1-246-803-00	CARBON	47K	1/8W	
R070	1-246-850-00	CARBON	3.6K	1/8W	
R071	1-246-805-00	CARBON	68K	1/8W	
R072	1-246-804-00	CARBON	56K	1/8W	
R073	1-246-804-00	CARBON	56K	1/8W	
R074	1-246-803-00	CARBON	47K	1/8W	
R075	1-246-795-00	CARBON	10K	1/8W	
R076	1-246-795-00	CARBON	10K	1/8W	
R079	1-246-787-00	CARBON	2.2K	1/8W	
R080	1-246-803-00	CARBON	47K	1/8W	
R081	1-246-803-00	CARBON	47K	1/8W	
R082	1-246-803-00	CARBON	47K	1/8W	
R083	1-246-803-00	CARBON	47K	1/8W	
R087	1-214-781-00	METAL	150K 1%	1/4W	
R088	1-246-775-00	CARBON	220	1/8W	
R089	1-246-805-00	CARBON	68K	1/8W	(AEP MODEL)
R090	1-246-803-00	CARBON	47K	1/8W	
R091	1-246-803-00	CARBON	47K	1/8W	
R092	1-247-053-00	CARBON	1M	1/8W	
R093	1-246-777-00	CARBON	330	1/8W	
R094	1-246-803-00	CARBON	47K	1/8W	
R095	1-246-803-00	CARBON	47K	1/8W	
R098	1-246-799-00	CARBON	22K	1/8W	
R099	1-246-775-00	CARBON	220	1/8W	
R101	1-246-795-00	CARBON	10K	1/8W	
R102	1-246-783-00	CARBON	1K	1/8W	
R103	1-246-796-00	CARBON	12K	1/8W	
R105	1-246-783-00	CARBON	1K	1/8W	
R106	1-246-864-00	CARBON	51K	1/8W	
R107	1-246-858-00	CARBON	16K	1/8W	
R108	1-246-794-00	CARBON	8.2K	1/8W	
R109	1-246-783-00	CARBON	1K	1/8W	
R110	1-246-807-00	CARBON	100K	1/8W	
R111	1-246-799-00	CARBON	22K	1/8W	
R117	1-246-867-00	CARBON	91K	1/8W	
R118	1-246-801-00	CARBON	33K	1/8W	
R119	1-246-791-00	CARBON	4.7K	1/8W	
R120	1-246-811-00	CARBON	220K	1/8W	
R121	1-246-803-00	CARBON	47K	1/8W	
R122	1-246-803-00	CARBON	47K	1/8W	
R123	1-246-802-00	CARBON	39K	1/8W	
R124	1-246-795-00	CARBON	10K	1/8W	
R125	1-246-857-00	CARBON	13K	1/8W	
R126	1-246-801-00	CARBON	33K	1/8W	
R127	1-246-803-00	CARBON	47K	1/8W	
R128	1-246-783-00	CARBON	1K	1/8W	
R129	1-246-861-00	CARBON	30K	1/8W	
R130	1-246-857-00	CARBON	13K	1/8W	
R131	1-214-156-00	METAL	10K 1%	1/4W	
R132	1-246-803-00	CARBON	47K	1/8W	

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description			Remark
R133	1-246-791-00	CARBON	4.7K	1/8W	
R134	1-246-795-00	CARBON	10K	1/8W	
R135	1-246-803-00	CARBON	47K	1/8W	
R136	1-246-803-00	CARBON	47K	1/8W	
R137	1-246-778-00	CARBON	390	1/8W	
R138	1-246-803-00	CARBON	47K	1/8W	
R139	1-246-791-00	CARBON	4.7K	1/8W	
R140	1-246-803-00	CARBON	47K	1/8W	
R141	1-246-803-00	CARBON	47K	1/8W	
R142	1-246-807-00	CARBON	100K	1/8W	
R143	1-246-803-00	CARBON	47K	1/8W	
R144	1-246-803-00	CARBON	47K	1/8W	
R145	1-246-797-00	CARBON	15K	1/8W	
R148	1-246-858-00	CARBON	16K	1/8W	
R153	1-246-807-00	CARBON	100K	1/8W	
R154	1-246-783-00	CARBON	1K	1/8W	
R155	1-246-795-00	CARBON	10K	1/8W	
R156	1-246-801-00	CARBON	33K	1/8W	
R158	1-246-783-00	CARBON	1K	1/8W	
R160	1-246-802-00	CARBON	39K	1/8W	
R161	1-246-790-00	CARBON	3.9K	1/8W	
R162	1-246-791-00	CARBON	4.7K	1/8W	
R164	1-246-791-00	CARBON	4.7K	1/8W	
R165	1-246-807-00	CARBON	100K	1/8W	
R166	1-246-807-00	CARBON	100K	1/8W	
R168	1-246-783-00	CARBON	1K	1/8W	
R169	1-246-807-00	CARBON	100K	1/8W	
R170	1-246-807-00	CARBON	100K	1/8W	
R171	1-246-807-00	CARBON	100K	1/8W	
R172	1-246-807-00	CARBON	100K	1/8W	
R173	1-246-795-00	CARBON	10K	1/8W	
R174	1-247-053-00	CARBON	1M	1/8W	
R175	1-246-803-00	CARBON	47K	1/8W	
R176	1-246-791-00	CARBON	4.7K	1/8W	
R177	1-246-791-00	CARBON	4.7K	1/8W	
R178	1-246-801-00	CARBON	33K	1/8W	
R179	1-246-800-00	CARBON	27K	1/8W	
R180	1-247-049-00	CARBON	470K	1/8W	
R181	1-246-805-00	CARBON	68K	1/8W	(AEP MODEL)
R182	1-246-804-00	CARBON	56K	1/8W	
R202	1-246-799-00	CARBON	22K	1/8W	
R203	1-246-789-00	CARBON	3.3K	1/8W	
R204	1-246-795-00	CARBON	10K	1/8W	
R205	1-246-799-00	CARBON	22K	1/8W	
R214	1-246-795-00	CARBON	10K	1/8W	
R215	1-246-799-00	CARBON	22K	1/8W	
R216	1-246-795-00	CARBON	10K	1/8W	
R217	1-246-795-00	CARBON	10K	1/8W	
R218	1-246-795-00	CARBON	10K	1/8W	
R219	1-247-053-00	CARBON	1M	1/8W	
R220	1-246-803-00	CARBON	47K	1/8W	

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When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description			Remark
R221	1-246-799-00	CARBON	22K	1/8W	
R222	1-246-803-00	CARBON	47K	1/8W	
R223	1-246-803-00	CARBON	47K	1/8W	
R224	1-246-795-00	CARBON	10K	1/8W	
R225	1-246-803-00	CARBON	47K	1/8W	
R226	1-246-799-00	CARBON	22K	1/8W	
R227	1-246-803-00	CARBON	47K	1/8W	
R228	1-246-783-00	CARBON	1K	1/8W	
R229	1-246-799-00	CARBON	22K	1/8W	
R230	1-246-803-00	CARBON	47K	1/8W	
R231	1-246-803-00	CARBON	47K	1/8W	
R232	1-246-803-00	CARBON	47K	1/8W	
R234	1-246-799-00	CARBON	22K	1/8W	
R235	1-246-799-00	CARBON	22K	1/8W	
R236	1-246-799-00	CARBON	22K	1/8W	
R237	1-246-803-00	CARBON	47K	1/8W	
R238	1-246-795-00	CARBON	10K	1/8W	
R239	1-246-803-00	CARBON	47K	1/8W	
R240	1-246-795-00	CARBON	10K	1/8W	
R241 ⚠	1-213-125-61	METAL	33	1W	F
R242	1-246-799-00	CARBON	22K	1/8W	(AEP MODEL)
R243	1-246-799-00	CARBON	22K	1/8W	(AEP MODEL)
R244	1-246-795-00	CARBON	10K	1/8W	(AEP MODEL)
R245	1-246-795-00	CARBON	10K	1/8W	(AEP MODEL)
R246	1-246-793-00	CARBON	6.8K	1/8W	
R250 ⚠	1-213-124-61	METAL	27	1W	F
R301	1-246-795-00	CARBON	10K	1/8W	
R302	1-246-786-00	CARBON	1.8K	1/8W	
R303	1-246-803-00	CARBON	47K	1/8W	
R304	1-246-803-00	CARBON	47K	1/8W	
R305 ⚠	1-212-849-00	FUSE	4.7 5%	1/4W	
R306	1-246-783-00	CARBON	1K	1/8W	
R501	1-246-832-39	CARBON	110	1/8W	
R502	1-246-832-39	CARBON	110	1/8W	
R503	1-246-832-39	CARBON	110	1/8W	
R504	1-246-832-39	CARBON	110	1/8W	
R505	1-246-832-39	CARBON	110	1/8W	
R506	1-246-832-39	CARBON	110	1/8W	
R507	1-246-793-00	CARBON	6.8K	1/8W	
R508	1-246-795-00	CARBON	10K	1/8W	
R509	1-246-799-00	CARBON	22K	1/8W	
R510	1-247-053-00	CARBON	1M	1/8W	
R511	1-246-799-00	CARBON	22K	1/8W	
R512	1-246-799-00	CARBON	22K	1/8W	
R513	1-246-799-00	CARBON	22K	1/8W	
R514	1-246-799-00	CARBON	22K	1/8W	
R515	1-246-799-00	CARBON	22K	1/8W	
R516	1-246-799-00	CARBON	22K	1/8W	
R517	1-246-799-00	CARBON	22K	1/8W	
R518	1-246-799-00	CARBON	22K	1/8W	
R519	1-246-799-00	CARBON	22K	1/8W	
R520	1-246-799-00	CARBON	22K	1/8W	
R521	1-246-799-00	CARBON	22K	1/8W	

VARIABLE RESISTOR

RV001	1-224-253-XX	RES, ADJ, METAL GLAZE 22K
RV002	1-224-250-XX	RES, ADJ, METAL GLAZE 2.2K
RV003	1-224-251-XX	RES, ADJ, METAL GLAZE 4.7K
RV004	1-224-253-XX	RES, ADJ, METAL GLAZE 22K
RV006	1-224-134-XX	RES, ADJ, METAL GLAZE 470K

Ref.No.	Part No.	Description	Remark
RV009	1-224-255-XX	RES, ADJ, METAL GLAZE 100K	
RV010	1-224-254-XX	RES, ADJ, METAL GLAZE 47K	
RV011	1-224-253-XX	RES, ADJ, METAL GLAZE 22K	
RV013	1-224-256-XX	RES, ADJ, METAL GLAZE 220K	
RV016	1-224-250-XX	RES, ADJ, METAL GLAZE 2.2K	
RV017	1-224-255-XX	RES, ADJ, METAL GLAZE 100K	
		CRYSTAL	
X201	1-527-532-00	OSCILLATOR, CERAMIC	
X501	1-527-532-00	OSCILLATOR, CERAMIC	
**********			
♣:A-6717-276-A		FU-5 BOARD, COMPLETE **********	
♣:3-674-313-00		COVER, LED	
♣:3-674-372-00		HOLDER (A), LED	
♣:3-674-390-00		HOLDER (B), LED	
♣:3-675-566-00		HOLDER, LED, 6 GANG	
		CAPACITOR	
C001	1-123-617-00	ELECT 10MF 20% 16V	
C002	1-161-013-00	CERAMIC 0.01MF 10% 25V	
		DIODE	
D001	8-719-812-30	DIODE TL0123	
D002	8-719-812-32	DIODE TLY123	
D003	8-719-812-32	DIODE TLY123	
D004	8-719-812-31	DIODE TLR123	
D005	8-719-812-31	DIODE TLR123	
D006	8-719-812-33	DIODE TLG123A	
D007	8-719-812-33	DIODE TLG123A	
D008	8-719-812-33	DIODE TLG123A	
D009	8-719-812-33	DIODE TLG123A	
D010	8-719-812-33	DIODE TLG123A	
D011	8-719-812-33	DIODE TLG123A	
D012	8-719-812-33	DIODE TLG123A	
D013	8-719-812-31	DIODE TLR123	
D014	8-719-812-33	DIODE TLG123A	
D015	8-719-812-33	DIODE TLG123A	
D016	8-719-812-32	DIODE TLY123	
D017	8-719-907-65	DIODE PG5531KY	
D018	8-719-907-65	DIODE PG5531KY	
D019	8-719-907-65	DIODE PG5531KY	
D020	8-719-907-65	DIODE PG5531KY	
D021	8-719-907-65	DIODE PG5531KY	
D022	8-719-907-65	DIODE PG5531KY	
D023	8-719-812-33	DIODE TLG123A	
D024	8-719-911-19	DIODE 1SS119	
D025	8-719-911-19	DIODE 1SS119	
D026	8-719-911-19	DIODE 1SS119	
D027	8-719-911-19	DIODE 1SS119	

Ref.No.	Part No.	Description	Remark
D028	8-719-812-31	DIODE TLR123	
		IC	
IC001	8-759-987-47	IC MB8747	
		TRANSISTOR	
Q001	8-729-902-11	TRANSISTOR 2SC2021	
Q002	8-729-902-11	TRANSISTOR 2SC2021	
Q003	8-729-902-11	TRANSISTOR 2SC2021	
Q004	8-729-902-11	TRANSISTOR 2SC2021	
Q005	8-729-902-11	TRANSISTOR 2SC2021	
Q006	8-729-902-11	TRANSISTOR 2SC2021	
Q007	8-729-902-11	TRANSISTOR 2SC2021	
Q008	8-729-902-11	TRANSISTOR 2SC2021	
Q009	8-729-902-11	TRANSISTOR 2SC2021	
Q010	8-729-902-11	TRANSISTOR 2SC2021	
Q011	8-729-902-11	TRANSISTOR 2SC2021	
		RESISTOR	
R001	1-246-795-00	CARBON 10K 1/8W	
R002	1-246-795-00	CARBON 10K 1/8W	
R003	1-246-795-00	CARBON 10K 1/8W	
R004	1-246-776-00	CARBON 270 1/8W	
R005	1-246-776-00	CARBON 270 1/8W	
R006	1-246-776-00	CARBON 270 1/8W	
R007	1-246-776-00	CARBON 270 1/8W	
R008	1-246-773-00	CARBON 150 1/8W	
R009	1-246-773-00	CARBON 150 1/8W	
R010	1-246-773-00	CARBON 150 1/8W	
R011	1-246-773-00	CARBON 150 1/8W	
R012	1-246-776-00	CARBON 270 1/8W	
		SWITCH	
S001	1-553-997-00	SWITCH, KEY BOARD	
S002	1-553-997-00	SWITCH, KEY BOARD	
S003	1-553-997-00	SWITCH, KEY BOARD	
S004	1-553-997-00	SWITCH, KEY BOARD	
S005	1-553-997-00	SWITCH, KEY BOARD	
S006	1-553-997-00	SWITCH, KEY BOARD	
S007	1-553-997-00	SWITCH, KEY BOARD	
S008	1-553-997-00	SWITCH, KEY BOARD	
S009	1-553-997-00	SWITCH, KEY BOARD	
S010	1-553-997-00	SWITCH, KEY BOARD	
S011	1-553-997-00	SWITCH, KEY BOARD	
S012	1-553-997-00	SWITCH, KEY BOARD	
S013	1-553-997-00	SWITCH, KEY BOARD	
S014	1-553-997-00	SWITCH, KEY BOARD	
S015	1-553-997-00	SWITCH, KEY BOARD	
S016	1-553-997-00	SWITCH, KEY BOARD	
S017	1-553-997-00	SWITCH, KEY BOARD	
S018	1-553-997-00	SWITCH, KEY BOARD	
S019	1-553-997-00	SWITCH, KEY BOARD	
S020	1-553-997-00	SWITCH, KEY BOARD	

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TU-24

Ref.No.	Part No.	Description	Remark
♣	A-6721-125-A	TU-24 BOARD, COMPLETE (AEP MODEL) **********	
♣	A-6721-139-A	TU-24 BOARD COMPLETE (UK MODEL) **********	
♣	3-662-227-00	HOLDER (R-3), LED (AEP MODEL)	
♣	3-662-228-00	HOLDER (R-1), LED	
♣	3-675-557-00	CASE (A) (MAIN), SHIELD, TU	
♣	3-675-558-00	LID, UPPER, SHIELD CASE(A), TU	
♣	3-675-559-00	LID, BOTTOM, SHIELD CASE(A), TU	
♣	4-336-029-00	PLATE, SHIELD	

BATTERY

BA301	1-528-097-00	BATTERY, STORAGE, NICKEL CADMIUM			

CAPACITOR

C001	1-123-356-00	ELECT	10MF	20%	16V (AEP MODEL)
C002	1-161-032-00	CERAMIC	0.01MF	20%	25V (AEP MODEL)
C003	1-123-356-00	ELECT	10MF	20%	16V (AEP MODEL)
C004	1-130-493-51	MYLAR	0.068MF	5%	50V
C005	1-130-493-51	MYLAR	0.068MF	5%	50V
C006	1-102-963-00	CERAMIC	33PF	5%	50V
C007	1-102-529-00	CERAMIC	100PF	5%	50V
C008	1-102-527-00	CERAMIC	82PF	5%	50V
C009	1-161-257-00	CERAMIC	6.8PF	10%	50V
C010	1-102-523-00	CERAMIC	56PF	5%	50V
C011	1-102-529-00	CERAMIC	100PF	5%	50V
C012	1-161-328-51	CERAMIC	0.0047MF	30%	50V
C013	1-161-323-00	CERAMIC	0.001MF	10%	50V
C014	1-161-323-00	CERAMIC	0.001MF	10%	50V
C015	1-161-328-51	CERAMIC	0.0047MF	30%	50V
C016	1-101-004-00	CERAMIC	0.01MF		50V
C017	1-161-328-51	CERAMIC	0.0047MF	30%	50V
C018	1-161-328-51	CERAMIC	0.0047MF	30%	50V
C019	1-123-380-00	ELECT	1MF	20%	50V
C020	1-161-328-51	CERAMIC	0.0047MF	30%	50V
C021	1-123-380-00	ELECT	1MF	20%	50V
C022	1-161-328-51	CERAMIC	0.0047MF	30%	50V
C023	1-161-328-51	CERAMIC	0.0047MF	30%	50V
C024	1-161-285-00	CERAMIC	33PF	5%	50V
C025	1-102-529-00	CERAMIC	100PF	5%	50V
C026	1-161-254-00	CERAMIC	3.9PF	10%	50V
C027	1-161-254-00	CERAMIC	3.9PF	10%	50V
C028	1-161-285-00	CERAMIC	33PF	5%	50V
C029	1-102-528-00	CERAMIC	91P	5%	50V
C030	1-123-356-00	ELECT	10MF	20%	16V
C031	1-161-328-51	CERAMIC	0.0047MF	30%	50V
C032	1-161-330-51	CERAMIC	0.01MF	30%	25V
C033	1-123-379-00	ELECT	0.47MF	20%	50V
C034	1-101-004-00	EJECT	33MF		16V
C035	1-101-004-00	CERAMIC	0.01MF		50V
C036	1-161-316-00	CERAMIC	270PF	10%	50V
C037	1-123-296-00	ELECT	220MF	20%	6.3V
C038	1-123-298-00	ELECT	470MF	20%	6.3V
C039	1-123-352-00	ELECT	1MF	20%	50V
C040	1-161-035-00	CERAMIC	0.033MF	20%	25V
C041	1-161-028-00	CERAMIC	0.0022MF	20%	25V
C042	1-102-959-00	CERAMIC	22PF	5%	50V
C043	1-102-959-00	CERAMIC	22PF	5%	50V
C044	1-161-032-00	CERAMIC	0.01MF	20%	25V
C045	1-161-032-00	CERAMIC	0.01MF	20%	25V
C046	1-161-328-51	CERAMIC	0.0047MF	30%	50V
C047	1-161-032-00	CERAMIC	0.01MF	20%	25V
C048	1-161-263-00	CERAMIC	22PF	5%	50V
C049	1-101-004-00	CERAMIC	0.01MF		50V
C050	1-123-318-00	ELECT	33MF	20%	16V
C051	1-123-380-00	ELECT	1MF	20%	50V
C052	1-123-379-00	ELECT	0.47MF	20%	50V
C101	1-123-380-00	ELECT	1MF	20%	50V
C102	1-123-356-00	ELECT	10MF	20%	16V (AEP MODEL)
C103	1-102-973-00	CERAMIC	100PF	5%	50V
C104	1-123-356-00	ELECT	10MF	20%	50V
C105	1-130-495-00	MYLAR	0.1MF	5%	50V
C106	1-102-114-00	CERAMIC	470PF	10%	50V
C107	1-123-379-00	ELECT	0.47MF	20%	50V
C108	1-130-495-00	MYLAR	0.1MF	5%	50V
C109	1-101-004-00	CERAMIC	0.01MF		50V
C110	1-101-004-00	CERAMIC	0.01MF		50V
C111	1-102-963-00	CERAMIC	33PF	5%	50V
C112	1-102-963-00	CERAMIC	33PF	5%	50V
C201	1-123-330-00	ELECT	22MF	20%	16V
C202	1-123-356-00	ELECT	10MF	20%	16V
C203	1-127-470-00	ELECT(SOLID)	0.47MF	5%	16V
C204	1-127-470-00	ELECT(SOLID)	0.47MF	5%	16V
C205	1-123-321-00	ELECT	220MF	20%	16V
C206	1-123-330-00	ELECT	22MF	20%	16V
C207	1-127-470-00	ELECT(SOLID)	0.47MF	5%	16V
C208	1-127-470-00	ELECT(SOLID)	0.47MF	5%	16V
C209	1-123-330-00	ELECT	22MF	20%	16V
C210	1-123-356-00	ELECT	10MF	20%	16V
C211	1-123-356-00	ELECT	10MF	20%	16V
C212	1-123-330-00	ELECT	22MF	20%	16V
C213	1-123-356-00	ELECT	10MF	20%	16V
C215	1-123-356-00	ELECT	10MF	20%	16V
C301	1-123-381-00	ELECT	2.2MF	20%	50V
C302	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C303	1-130-495-00	MYLAR	0.1MF	5%	50V
C304	1-123-318-00	ELECT	33MF	20%	16V

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description			Remark
C305	1-123-318-00	ELECT	33MF	20%	16V
C306	1-123-356-00	ELECT	10MF	20%	50V
C307	1-101-004-00	CERAMIC	0.01MF		50V
		CERAMIC DISCRIMINATOR			
CD001	1-404-380-00	DISCRIMINATOR, CERAMIC 5.5MHZ (AEP MODEL)			
CD001	1-404-407-00	DISCRIMINATOR (UK MODEL)			
		FILTER			
CF001	1-527-263-00	CERAMIC FILTER (5.5MHZ) (AEP MODEL)			
CF001	1-527-262-00	CERAMIC FILTER (6.0MHZ) (UK MODEL)			
CF101	1-527-932-00	OSCILLATOR, CERAMIC			
		CONNECTOR			
CN001	1-560-467-00	PIN, CONNECTOR 4P			
CN002	1-560-468-00	PIN, CONNECTOR 5P			
CN101	1-560-466-00	PIN, CONNECTOR 3P			
CN102	1-560-469-00	PIN, CONNECTOR 6P			
CN103	1-560-471-00	PIN, CONNECTOR 10P			
CN104	1-560-591-00	PIN, CONNECTOR 7P			
CN105	1-560-466-00	PIN, CONNECTOR 3P			
CN106	1-560-466-00	PIN, CONNECTOR 3P			
CN201	1-560-456-00	PIN, CONNECTOR 2P			
CN301	1-560-468-00	PIN, CONNECTOR 5P			
		TRIMMER			
CT001	1-409-333-00	TRAP, CERAMIC (UK MODEL)			
CT001	1-409-358-00	TRAP, CERAMIC (AEP MODEL)			
		DIODE			
D002	8-719-911-19	DIODE 1SS119			
D101	8-719-911-19	DIODE 1SS119			
D102	8-719-911-19	DIODE 1SS119			
D103	8-719-911-19	DIODE 1SS119 (UK MODEL)			
D105	8-719-911-19	DIODE 1SS119 (UK MODEL)			
D106	8-719-812-31	DIODE TLR123			
D107	8-719-812-31	DIODE TLR123			
D108	8-719-812-31	DIODE TLR123 (AEP MODEL)			
D109	8-719-812-32	DIODE TLY123 (AEP MODEL)			
D110	8-719-812-33	DIODE TLG123A (AEP MODEL)			
D201	8-719-911-19	DIODE 1SS119			
D202	8-719-911-19	DIODE 1SS119			
D203	8-719-911-19	DIODE 1SS119			
D204	8-719-113-07	DIODE RD13E-B			
D301	8-719-151-07	DIODE RD5.1E-B			
D302	8-719-911-19	DIODE 1SS119			
D303	8-719-151-07	DIODE RD5.1E-B			
D304	8-719-124-25	DIODE RD24E-B2Z			
		IC			
IC001	8-759-200-64	IC TA7660P			
IC002	8-759-193-91	IC UPC1391H			
IC101	8-759-600-17	IC M50118P			
IC102	8-759-600-16	IC M5G1400P			
IC103	8-759-157-40	IC UPC574J			

Ref.No.	Part No.	Description			Remark
IC104	8-759-600-15	IC M54570L (AEP MODEL)			
IC201	8-759-145-58	IC UPC4558C			
IC202	8-759-145-58	IC UPC4558C			
		COIL			
L001	1-407-681-00	MICRO INDUCTOR 1UH			
L002	1-407-690-00	MICRO INDUCTOR 5.6UH			
L003	1-408-600-41	MICRO INDUCTOR 5.6UH			
L004	1-408-410-00	MICRO INDUCTOR 12UH			
L006	1-407-687-00	MICRO INDUCTOR 3.3UH			
L007	1-408-606-11	MICRO INDUCTOR 18UH			
L008	1-408-607-41	MICRO INDUCTOR 22UH			
L101	1-407-510-00	MICRO INDUCTOR 33MMH			
L102	1-408-603-11	MICRO INDUCTOR 10UH			
L103	1-408-603-11	MICRO INDUCTOR 10UH			
L301	1-408-614-41	MICRO INDUCTOR 82UH			
		TRANSISTOR			
Q001	8-729-178-54	TRANSISTOR 2SC2785			
Q002	8-765-300-00	TRANSISTOR 2SC2009			
Q003	8-729-178-54	TRANSISTOR 2SC2785			
Q004	=>8-729-617-77	TRANSISTOR 2SA1027R			
Q005	=>8-729-617-77	TRANSISTOR 2SA1027R			
Q006	=>8-729-617-77	TRANSISTOR 2SA1027R			
Q007	8-729-178-54	TRANSISTOR 2SC2785			
Q008	=>8-729-617-77	TRANSISTOR 2SA1027R			
Q009	8-729-178-54	TRANSISTOR 2SC2785			
Q101	8-729-603-50	TRANSISTOR 2SC403SP			
Q102	8-729-178-54	TRANSISTOR 2SC2785			
Q103	8-729-178-54	TRANSISTOR 2SC2785			
Q104	8-729-178-54	TRANSISTOR 2SC2785			
Q105	=>8-729-117-54	TRANSISTOR 2SA1027R			
Q106	8-729-617-77	TRANSISTOR 2SC2785			
Q107	8-729-178-54	TRANSISTOR 2SC2785			
Q108	8-729-178-54	TRANSISTOR 2SC2785			
Q109	=>8-729-617-77	TRANSISTOR 2SA1027R (AEP MODEL)			
Q110	=>8-729-617-77	TRANSISTOR 2SA1027R (AEP MODEL)			
Q111	=>8-729-617-77	TRANSISTOR 2SA1027R			
Q201	8-729-178-54	TRANSISTOR 2SC2785			
Q301	8-729-178-54	TRANSISTOR 2SC2785			
Q302	8-729-177-32	TRANSISTOR 2SD773			
Q303	8-729-178-54	TRANSISTOR 2SC2785			
Q304	8-729-178-54	TRANSISTOR 2SC2785			
Q305	8-729-988-12	TRANSISTOR 2SA881			
		RESISTOR			
R001	1-246-481-00	CARBON	2.2K	5%	1/4W
R002	1-246-533-00	CARBON	330K	5%	1/4W
R003	1-246-505-00	CARBON	22K	5%	1/4W
R004	1-246-489-00	CARBON	4.7K	5%	1/4W
R005	1-246-487-00	CARBON	3.9K	5%	1/4W

When indicating parts by reference number, please include the board name.

TU-24

Ref.No.	Part No.	Description				Remark
R006	1-246-457-00	CARBON	220	5%	1/4W	
R007	1-246-457-00	CARBON	220	5%	1/4W	
R008	1-246-465-00	CARBON	470	5%	1/4W	
R009	1-246-479-00	CARBON	1.8K	5%	1/4W	
R010	1-246-521-00	CARBON	100K	5%	1/4W	
R011	1-246-483-00	CARBON	2.7K	5%	1/4W	
R012	1-246-477-00	CARBON	1.5K	5%	1/4W	
R013	1-246-456-00	CARBON	200	5%	1/4W	
R014	1-246-521-00	CARBON	100K	5%	1/4W	
R015	1-246-511-00	CARBON	39K	5%	1/4W	
R016	1-246-473-00	CARBON	1K	5%	1/4W	
R017	1-246-473-00	CARBON	1K	5%	1/4W	
R018	1-246-455-00	CARBON	180	5%	1/4W	
R019	1-246-449-00	CARBON	100	5%	1/4W	
R020	1-246-463-00	CARBON	390	5%	1/4W	
R021	1-246-465-00	CARBON	470	5%	1/4W	
R022	1-246-465-00	CARBON	470	5%	1/4W	
R023	1-246-465-00	CARBON	470	5%	1/4W	
R024	1-246-473-00	CARBON	1K	5%	1/4W	
R025	1-246-457-00	CARBON	220	5%	1/4W	
R026	1-246-467-00	CARBON	560	5%	1/4W	
R027	1-246-445-00	CARBON	68	5%	1/4W	
R028	1-246-457-00	CARBON	220	5%	1/4W	
R029	1-246-473-00	CARBON	1K	5%	1/4W	
R030	1-246-513-00	CARBON	47K	5%	1/4W	
R031	1-246-531-00	CARBON	270K	5%	1/4W	
R032	1-246-473-00	CARBON	1K	5%	1/4W	
R033	1-246-473-00	CARBON	1K	5%	1/4W	
R034	1-246-473-00	CARBON	1K	5%	1/4W	
R035	1-246-513-00	CARBON	47K	5%	1/4W	
R036	1-246-489-00	CARBON	4.7K	5%	1/4W	
R037	1-246-459-00	CARBON	270	5%	1/4W	
R038	1-246-463-00	CARBON	390	5%	1/4W	
R039	1-246-473-00	CARBON	1K	5%	1/4W	
R040	1-246-459-00	CARBON	270	5%	1/4W	
R041	1-246-483-00	CARBON	2.7K	5%	1/4W	
R042	1-246-473-00	CARBON	1K	5%	1/4W	
R043	1-246-803-00	CARBON	47K		1/8W	
R044	1-246-795-00	CARBON	10K		1/8W	
R045	1-246-811-00	CARBON	220K		1/8W	
R046	1-246-787-00	CARBON	2.2K		1/8W	
R101	1-246-509-00	CARBON	33K	5%	1/4W	
R102	1-246-497-00	CARBON	10K	5%	1/4W	
R103	1-246-505-00	CARBON	22K	5%	1/4W	
R104	1-246-505-00	CARBON	22K	5%	1/4W	
R105	1-246-467-00	CARBON	560	5%	1/4W	
R106	1-246-505-00	CARBON	22K	5%	1/4W	
R107	1-246-505-00	CARBON	22K	5%	1/4W	
R108	1-246-481-00	CARBON	2.2K	5%	1/4W	
R109	1-246-481-00	CARBON	2.2K	5%	1/4W	(AEP MODEL)
R110	1-246-477-00	CARBON	1.5K	5%	1/4W	(AEP MODEL)

Ref.No.	Part No.	Description				Remark
R111	1-246-475-00	CARBON	1.2K	5%	1/4W	(AEP MODEL)
R112	1-246-505-00	CARBON	22K	5%	1/4W	(AEP MODEL)
R113	1-246-505-00	CARBON	22K	5%	1/4W	(AEP MODEL)
R114	1-246-521-00	CARBON	100K	5%	1/4W	(AEP MODEL)
R115	1-246-477-00	CARBON	1.5K	5%	1/4W	
R116	1-246-489-00	CARBON	4.7K	5%	1/4W	
R117	1-246-509-00	CARBON	33K	5%	1/4W	
R118	1-246-509-00	CARBON	33K	5%	1/4W	
R119	1-246-505-00	CARBON	22K	5%	1/4W	
R120	1-246-461-00	CARBON	330	5%	1/4W	
R121	1-246-509-00	CARBON	33K	5%	1/4W	
R122	1-246-529-00	CARBON	220K	5%	1/4W	
R123	1-246-505-00	CARBON	22K	5%	1/4W	
R124	1-246-521-00	CARBON	100K	5%	1/4W	
R125	1-246-513-00	CARBON	47K	5%	1/4W	
R126	1-246-523-00	CARBON	120K	5%	1/4W	
R127	1-246-525-00	CARBON	150K	5%	1/4W	
R128	1-246-545-00	CARBON	1M	5%	1/4W	
R129	1-246-537-00	CARBON	470K	5%	1/4W	
R130	1-246-521-00	CARBON	100K	5%	1/4W	
R131	1-246-505-00	CARBON	22K	5%	1/4W	
R132	1-246-509-00	CARBON	33K	5%	1/4W	(AEP MODEL)
R133	1-246-509-00	CARBON	33K	5%	1/4W	(AEP MODEL)
R134	1-246-497-00	CARBON	10K	5%	1/4W	(AEP MODEL)
R135	1-246-497-00	CARBON	10K	5%	1/4W	(AEP MODEL)
R136	1-246-505-00	CARBON	22K	5%	1/4W	
R137	1-246-481-00	CARBON	2.2K	5%	1/4W	
R142	1-246-791-00	CARBON	4.7K		1/8W	
R143	1-246-791-00	CARBON	4.7K		1/8W	
R201	1-214-757-00	METAL	15K	1%	1/4W	
R202	1-246-521-00	CARBON	100K	5%	1/4W	
R203	1-246-521-00	CARBON	100K	5%	1/4W	
R204	1-214-958-00	METAL	560K	1%	1/4W	
R205	1-214-729-00	METAL	1K	1%	1/4W	
R206	1-214-741-00	METAL	3.3K	1%	1/4W	
R207	1-214-958-00	METAL	560K	1%	1/4W	
R208	1-214-736-00	METAL	2K	1%	1/4W	
R209	1-246-481-00	CARBON	2.2K	5%	1/4W	
R210	1-246-505-00	CARBON	22K	5%	1/4W	
R211	1-246-529-00	CARBON	220K	5%	1/4W	
R212	1-246-481-00	CARBON	2.2K	5%	1/4W	
R213	1-246-521-00	CARBON	100K	5%	1/4W	
R214	1-246-481-00	CARBON	2.2K	5%	1/4W	
R215	1-246-505-00	CARBON	22K	5%	1/4W	
R216	1-246-528-00	CARBON	200K	5%	1/4W	
R217	1-246-497-00	CARBON	10K	5%	1/4W	

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description				Remark
R218	1-246-509-00	CARBON	33K	5%	1/4W	
R220	1-246-481-00	CARBON	2.2K	5%	1/4W	
R301	1-246-456-00	CARBON	200	5%	1/4W	
R302	1-246-492-00	CARBON	6.2K	5%	1/4W	
R303	1-246-465-00	CARBON	470K	5%	1/4W	
R304	1-246-453-00	CARBON	150	5%	1/4W	
R305	1-246-433-00	CARBON	22	5%	1/4W	
R306	1-246-505-00	CARBON	22K	5%	1/4W	
R307	1-246-521-00	CARBON	100K	5%	1/4W	
R308	1-246-489-00	CARBON	4.7K	5%	1/4W	
R309	1-246-473-00	CARBON	1K	5%	1/4W	
R310	1-246-463-00	CARBON	390	5%	1/4W	
R311	1-246-459-00	CARBON	270	5%	1/4W	
R312	1-246-456-00	CARBON	200	5%	1/4W	
R313 ⚠	1-246-981-00	CARBON	4.7	5%	1/8W	F
R314	1-246-465-00	CARBON	470	5%	1/4W	

VARIABLE RESISTOR

RV001	1-224-251-XX	RES, ADJ, SOLID 4.7K
RV201	1-224-249-XX	RES, ADJ, METAL GLAZE 1K
RV202	1-224-255-XX	RES, ADJ, METAL GLAZE 100K

SWITCH

S101	1-552-174-00	SWITCH, PUSH
S102	1-552-174-00	SWITCH, PUSH
S103	1-552-174-00	SWITCH, PUSH
S104	1-552-174-00	SWITCH, PUSH
S105	1-552-174-00	SWITCH, PUSH
S106	1-552-174-00	SWITCH, PUSH
S107	1-552-174-00	SWITCH, PUSH
S108	1-516-226-00	SLIDE SWITCH

FILTER

SF001	1-404-433-00	SAWF (AEP MODEL)
SF001	1-404-345-00	SAWF (UK MODEL)

TRANSFORMER

T001	1-404-068-00	COIL, VIF
T002	1-404-068-00	COIL, VIF
T003	1-404-207-00	COIL, VIF
T004	1-404-203-00	COIL, VIF
T005	1-404-203-00	COIL, VIF
T301	1-446-571-00	TRANSFORMER, CONVERTOR

****

♣: 1-607-770-12 SW-11 BOARD
****

DIODE

D401	8-719-911-19	DIODE 1SS119
D402	8-719-911-19	DIODE 1SS119

Ref.No.	Part No.	Description				Remark

VARIABLE RESISTOR

RV401	1-228-244-00	RES, VAR, SOLID 100K
RV402	1-228-359-00	RES, VAR, SOLID 5K

SWITCH

S401	1-553-997-00	SWITCH, KEY BOARD
S402	1-553-997-00	SWITCH, KEY BOARD
S403	1-553-754-00	SWITCH, SLIDE
S404	1-553-716-00	SWITCH, SLIDE
S405	1-553-754-00	SWITCH, SLIDE

****

♣: 1-605-109-00 LM-9 BOARD
****

CAPACITOR

C001	1-161-057-00	CERAMIC	0.033MF	10%	50V
C002	1-161-057-00	CERAMIC	0.033MF	10%	50V

DIODE

D001	8-719-911-06	DIODE 1SS106
D002	8-719-911-06	DIODE 1SS106
D003	8-719-911-06	DIODE 1SS106

COIL

L001	1-407-696-00	MICRO INDUCTOR 18UH
L002	1-407-696-00	MICRO INDUCTOR 18UH

SWITCH

S001	1-552-664-00	SWITCH, MICRO

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♣: 1-605-110-00 RL-4 BOARD
****

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♣: 1-605-111-14 CI-2 BOARD
****

1-553-719-00 SWITCH, MICRO
♣: 3-670-039-00 HOLDER (R), CSW

****

♣: 1-605-112-14 CI-3 BOARD
****

1-553-719-00 SWITCH, MICRO
♣: 3-670-038-00 HOLDER (L), CSW

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description			Remark
♣:	1-605-071-21	LM-8 BOARD			
		**********			
		CAPACITOR			
C101	1-161-057-00	CERAMIC	0.033MF	10%	50V
C102	1-161-057-00	CERAMIC	0.033MF	10%	50V
		COIL			
L101	1-408-120-00	MICRO INDUCTOR 18UH			
L102	1-408-120-00	MICRO INDUCTOR 18UH			
		RESISTOR			
R101 ⚠	1-206-640-00	METAL	100	5% 2W	F

****

♣:	1-607-772-00	RL-6 BOARD			
		**********			
		CONNECTOR			
CN501♣:	1-560-471-00	PIN, CONNECTOR 10P			
CN502♣:	1-560-591-00	PIN, CONNECTOR 7P			
CN503♣:	1-560-459-00	PIN, CONNECTOR 3P			
CN504♣:	1-560-459-00	PIN, CONNECTOR 3P			
CN505♣:	1-560-455-41	PIN, CONNECTOR 2P			
CN506♣:	1-560-455-00	PIN, CONNECTOR 2P			
CN507♣:	1-560-455-00	PIN, CONNECTOR 2P			
CN508♣:	1-560-455-00	PIN, CONNECTOR 2P			
CN509♣:	1-560-466-00	PIN, CONNECTOR 3P			
CN510♣:	1-560-459-00	PIN, CONNECTOR 3P			
CN511♣:	1-560-455-00	PIN, CONNECTOR 2P			
CN512♣:	1-560-460-00	PIN, CONNECTOR 4P			
		DIODE			
D501	8-719-911-19	DIODE 1SS119			
D502	8-719-911-19	DIODE 1SS119			
D503	8-719-911-19	DIODE 1SS119			
		RESISTOR			
R501	1-246-783-00	CARBON	1K	1/8W	

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♣:	1-607-767-00	TM-30 BOARD			
		**********			
♣:	3-675-517-00	HOLDER, INDICATION TUBE			

Ref.No.	Part No.	Description			Remark
		CAPACITOR			
C101	1-123-617-00	ELECT	10MF	20%	16V
C102	1-123-620-00	ELECT	10MF	20%	35V
		DIODE			
D101	8-719-151-07	DIODE RD5.1E-B			
D102	8-719-182-07	DIODE RD8.2E-B			
		INDICATOR TUBE			
FL101	1-519-269-00	INDICATOR TUBE, FLUORESCENT			
		IC			
IC101	8-759-909-15	IC MSL915RS			
IC102	8-759-909-15	IC MSL915RS			
IC103	8-759-909-15	IC MSL915RS			
		RESISTOR			
R101	1-246-801-00	CARBON	33K	1/8W	
R102	1-246-807-00	CARBON	100K	1/8W	
R103	1-246-807-00	CARBON	100K	1/8W	
R104	1-246-807-00	CARBON	100K	1/8W	
R105	1-246-807-00	CARBON	100K	1/8W	
R106	1-246-807-00	CARBON	100K	1/8W	
R107	1-246-807-00	CARBON	100K	1/8W	
R108	1-246-807-00	CARBON	100K	1/8W	
R109	1-246-807-00	CARBON	100K	1/8W	
R110	1-246-807-00	CARBON	100K	1/8W	
R111	1-246-807-00	CARBON	100K	1/8W	
R112	1-246-807-00	CARBON	100K	1/8W	
R113	1-246-807-00	CARBON	100K	1/8W	
R114	1-246-807-00	CARBON	100K	1/8W	
R115	1-246-807-00	CARBON	100K	1/8W	

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♣:	1-607-768-00	TM-31 BOARD			
		**********			
♣:	3-674-372-00	HOLDER (A), LED			
		CAPACITOR			
C202	1-102-522-00	CERAMIC	51PF	5%	50V
C203	1-123-617-00	ELECT	10MF	20%	16V
C204	1-123-298-00	ELECT	470MF	20%	6.3V
C205	1-161-036-00	CERAMIC	0.047MF	20%	25V
		CONNECTOR			
CN201♣:	1-560-462-00	PIN, CONNECTOR 6P			
CN202♣:	1-560-469-00	PIN, CONNECTOR 6P			
CN203♣:	1-560-468-00	PIN, CONNECTOR 5P			
CN204♣:	1-560-591-00	PIN, CONNECTOR 7P			
CN205♣:	1-560-456-00	PIN, CONNECTOR 2P			
CN206♣:	1-560-466-00	PIN, CONNECTOR 3P			

When indicating parts by reference number, please include the board name.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Ref.No.	Part No.	Description	Remark
CN207♣:	1-560-469-00	PIN, CONNECTOR 6P	
CN208♣:	1-560-468-00	PIN, CONNECTOR 5P	
CN209♣:	1-560-459-00	PIN, CONNECTOR 3P	
		DIODE	
D201	8-719-911-19	DIODE 1SS119	
D214	8-719-911-19	DIODE 1SS119	
D215	8-719-911-19	DIODE 1SS119	
D216	8-719-911-19	DIODE 1SS119	
D217	8-719-911-19	DIODE 1SS119 (AEP MODEL)	
D218	8-719-812-41	DIODE TLR124	
		IC	
IC201	8-759-903-25	IC MB88401-123M	
IC202	8-759-240-71	IC TC4071BP	
IC203	8-759-240-71	IC TC4071BP	
IC204	8-759-240-71	IC TC4071BP	
IC205	8-759-600-18	IC M54847P	
		COIL	
L201	1-407-705-00	MICRO INDUCTOR 100UH	
		TRANSISTOR	
Q201	8-729-178-54	TRANSISTOR 2SC2785	
Q202	8-729-178-54	TRANSISTOR 2SC2785	
Q203	8-729-117-54	TRANSISTOR 2SA1175	
Q204	8-729-178-54	TRANSISTOR 2SC2785	
Q205	8-729-117-54	TRANSISTOR 2SA1175	
Q206	8-729-178-54	TRANSISTOR 2SC2785	
Q207	8-729-178-54	TRANSISTOR 2SC2785	
Q208	8-729-178-54	TRANSISTOR 2SC2785	
Q209	8-729-178-54	TRANSISTOR 2SC2785	
Q210	8-729-117-54	TRANSISTOR 2SA1175	
Q211	8-729-178-54	TRANSISTOR 2SC2785	
Q212	8-729-178-54	TRANSISTOR 2SC2785	
Q213	8-729-117-54	TRANSISTOR 2SA1175	
		RESISTOR	
R204	1-246-803-00	CARBON 47K 1/8W	
R206	1-246-803-00	CARBON 47K 1/8W	
R207	1-246-799-00	CARBON 22K 1/8W	
R208	1-246-799-00	CARBON 22K 1/8W	
R209	1-246-799-00	CARBON 22K 1/8W	
R212	1-246-799-00	CARBON 22K 1/8W	
R213	1-246-765-00	CARBON 33 1/8W	
R221	1-246-783-00	CARBON 1K 1/8W	
R227	1-246-799-00	CARBON 22K 1/8W	
R228	1-246-799-00	CARBON 22K 1/8W	
R229	1-246-799-00	CARBON 22K 1/8W	
R230	1-246-799-00	CARBON 22K 1/8W	
R231	1-246-799-00	CARBON 22K 1/8W	
R232	1-246-799-00	CARBON 22K 1/8W	
R233	1-246-799-00	CARBON 22K 1/8W	

Ref.No.	Part No.	Description	Remark
R239	1-246-807-00	CARBON 100K 1/8W	
R241	1-246-801-00	CARBON 33K 1/8W	
		TRIMMER	
TC201	1-141-022-11	CAP, TRIMMER, CERAMIC	
		CRYSTAL	
X201	1-527-868-00	VIBRATOR, CRYSTAL	
**********			
♣:	1-607-769-12	TM-32 BOARD **********	
		DIODE	
D301	8-719-911-19	DIODE 1SS119	
D302	8-719-911-19	DIODE 1SS119	
D303	8-719-911-19	DIODE 1SS119	
D304	8-719-911-19	DIODE 1SS119	
D305	8-719-911-19	DIODE 1SS119	
D306	8-719-911-19	DIODE 1SS119	
D307	8-719-911-19	DIODE 1SS119	
		SWITCH	
S301	1-553-997-00	SWITCH, KEY BOARD	
S302	1-553-997-00	SWITCH, KEY BOARD	
S303	1-553-997-00	SWITCH, KEY BOARD	
S304	1-553-997-00	SWITCH, KEY BOARD	
S305	1-553-997-00	SWITCH, KEY BOARD	
S306	1-553-997-00	SWITCH, KEY BOARD	
S307	1-553-997-00	SWITCH, KEY BOARD	
S308	1-553-997-00	SWITCH, KEY BOARD	
S309	1-553-997-00	SWITCH, KEY BOARD	
S310	1-553-716-00	SWITCH, SLIDE	
**********			
♣:	1-607-774-00	HM-1 BOARD **********	
	1-507-285-21	JACK	
	1-507-902-XX	JACK NUT B	
	3-670-164-00	SPACER, JACK	
♣:	3-674-399-00	INSULATOR, HM	
**********			
♣:	1-607-776-00	CH-27 BOARD UK MODEL **********	
♣:	1-607-766-00	CH-10 BOARD AEP MODEL **********	
♣:	3-674-381-00	HOLDER, LED, BS	
		DIODE	
D501	8-719-812-31	DIODE TLR123	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description	Remark
		SWITCH	
S501	1-553-997-00	SWITCH, KEY BOARD	
S502	1-553-997-00	SWITCH, KEY BOARD	
S503	1-553-997-00	SWITCH, KEY BOARD	
S504	1-553-997-00	SWITCH, KEY BOARD	
S505	1-553-997-00	SWITCH, KEY BOARD	
S506	1-553-997-00	SWITCH, KEY BOARD	
S507	1-553-997-00	SWITCH, KEY BOARD	
S508	1-553-997-00	SWITCH, KEY BOARD	
S509	1-553-997-00	SWITCH, KEY BOARD	
S510	1-553-997-00	SWITCH, KEY BOARD	
S511	1-553-997-00	SWITCH, KEY BOARD	
S512	1-553-997-00	SWITCH, KEY BOARD	
**********			
♣:	1-607-775-00	MT-1 BOARD	
		**********	
♣:	1-555-716-61	CABLE, PIN	
		TUNER	
TU401	⚠1-463-350-00	TUNER (BT-881) (AEP MODEL)	
	⚠1-463-371-00	TUNER (BT-882) (UK MODEL)	
**********			
♣:	1-609-854-00	FH-2 BOARD	
		**********	
		CAPACITOR	
C406	1-130-475-00	MYLAR 0.0022MF 5% 50V	
C408	1-102-824-00	CERAMIC 470PF 5% 50V	
C409	1-161-013-00	CERAMIC 0.01MF 10% 25V	
		CONNECTOR	
CN901 ♣:	1-560-466-00	PIN, CONNECTOR 3P	
CN902 ♣:	1-560-466-00	PIN, CONNECTOR 3P	
CN903 ♣:	1-560-470-00	PIN, CONNECTOR 8P	
		DIODE	
D308	8-719-911-06	DIODE ISS106	
D406	8-719-911-19	DIODE ISS119	
D407	8-719-911-19	DIODE ISS119	
D408	8-719-911-19	DIODE ISS119	
D409	8-719-911-19	DIODE ISS119	
D410	8-719-911-19	DIODE ISS119	
D411	8-719-911-19	DIODE ISS119	
		IC	
IC315	8-759-240-30	IC TC4030BP	

Ref.No.	Part No.	Description			Remark
		TRANSISTOR			
Q401	8-729-178-54	TRANSISTOR 2SC2785			
Q402	8-729-117-54	TRANSISTOR 2SA1175			
Q403	8-729-178-54	TRANSISTOR 2SA2785			
Q404	8-729-178-54	TRANSISTOR 2SA2785			
Q405	8-729-178-54	TRANSISTOR 2SA2785			
Q406	8-729-178-54	TRANSISTOR 2SA2785			
Q407	8-729-178-54	TRANSISTOR 2SA2785			
		RESISTOR			
R499	1-246-791-00	CARBON	4.7K	1/8W	4.7K
R533	1-246-803-00	CARBON	47K	1/8W	47K
R534	1-246-807-00	CARBON	100K	1/8W	100K
R535	1-246-807-00	CARBON	100K	1/8W	100K
R536	1-246-807-00	CARBON	100K	1/8W	100K
R537	1-246-807-00	CARBON	100K	1/8W	100K
R538	1-246-795-00	CARBON	10K	1/8W	10K
R539	1-246-803-00	CARBON	47K	1/8W	47K
R541	1-246-803-00	CARBON	47K	1/8W	47K
R542	1-246-807-00	CARBON	100K	1/8W	100K
R543	1-246-795-00	CARBON	10K	1/8W	10K
R544	1-246-797-00	CARBON	15K	1/8W	15K
R545	1-246-867-00	CARBON	91K	1/8W	91K
R546	1-246-801-00	CARBON	33K	1/8W	33K
**********					
		MISCELLANEOUS			
		**********			
	1-235-054-00	COIL, SENSOR, S			
	1-235-055-00	COIL, SENSOR, T			
	⚠1-454-281-31	SOLENOID, PLUNGER (BRAKE)			
	⚠1-454-282-11	SOLENOID, PLUNGER (PINCH ROLLER)			
	⚠1-464-184-00	MODULATOR, RF (RBM-110-E) (AEP MODEL)			
	⚠1-464-185-00	MODULATOR, RF (RBM-120-UB) (UK MODEL)			
	1-552-664-00	SWITCH, MICRO S1 (CASSETTE UP)			
	1-553-539-00	SWITCH, MICRO S2 (THREADING END)			
	1-553-717-00	SWITCH, MICRO S3 (REC PROOF)			
	1-553-718-00	SWITCH, MICRO S4 (UNTHREADING END)			
	8-825-508-10	HEAD, FF			
	8-838-021-21	MOTOR, DC (BHF-1800C)			
	8-838-027-11	MOTOR, DC (BHF-1901B)			

ACCESSORIES AND PACKING MATERIALS

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Part No.	Description	Remark
1-551-513-00	CABLE, COAXAL ASSY	
3-660-986-00	SHEET, PROTECTION	
3-671-873-00	CASE, ACCESSORY	
3-675-575-00	CUSHION (UPPER FRONT)	
3-675-576-00	CUSHION (UPPER REAR)	
3-675-577-00	CUSHION (LOWER FRONT)	
3-675-578-00	CUSHION (LOWER REAR)	
3-675-579-00	BAG, PROTECTION	
3-675-580-00	INDIVIDUAL CARTON (AEP MODEL)	
3-675-581-00	LID, CASE, ACCESSORY	
3-677-501-00	INDIVIDUAL CARTON (UK MODEL)	
3-701-007-00	BAND, BINDING	
3-773-025-11	MANUAL, INSTRUCTION (AEP MODEL)	
3-773-025-41	MANUAL, INSTRUCTION (UK MODEL)	
3-773-025-51	MANUAL, INSTRUCTION (AEP MODEL)	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description		Remark
		POWER BLOCK (SR-11E/SR-11UB)		
		**********		
		INCLUDING CD-09(DC-DC CONV)		
⚠	1-413-105-11	POWER BLOCK (SR11E) (AEP MODEL)		
⚠	1-413-105-21	POWER BLOCK (SR11UB) (UK MODEL)		
		CAPACITOR		
C601 ⚠	1-130-711-00	METALLIZED POLYSTER	0.22MF	250V
C602 ⚠	1-130-711-00	METALLIZED POLYSTER	0.22MF	250V
C603 ⚠	1-161-742-00	CERAMIC	0.0022MF	400V
C604 ⚠	1-161-742-00	CERAMIC	0.0022MF	400V
C605 ⚠	1-161-742-00	CERAMIC	0.0022MF	400V
C606 ⚠	1-161-743-00	CERAMIC	0.0047MF	400V
C607 ⚠	1-161-743-00	CERAMIC	0.0047MF	400V
C608 ⚠	1-161-742-00	CERAMIC	0.0022MF	400V
C611 ⚠	1-123-311-00	ELECT	200MF	400V
C612 ⚠	1-124-023-00	ELECT	4.7MF	350V
C613 ⚠	1-124-023-00	ELECT	4.7MF	350V
C614 ⚠	1-124-162-00	ELECT	47MF	10V
C615 ⚠	1-124-162-00	ELECT	47MF	10V
C631 ⚠	1-161-910-00	CERAMIC	390PF	500V
C632 ⚠	1-161-910-00	CERAMIC	390PF	500V
C633 ⚠	1-108-409-00	POLYSTER	0.001MF	200V
C634 ⚠	1-123-385-00	ELECT	22MF	100V
C635 ⚠	1-123-324-00	ELECT	1000MF	16V
C636 ⚠	1-123-324-00	ELECT	1000MF	16V
C638 ⚠	1-161-915-00	CERAMIC	0.001MF	500V
C639 ⚠	1-130-516-00	POLYSTER	0.01MF	50V
C640 ⚠	1-130-520-00	POLYESTER	0.022MF	50V
C642 ⚠	1-108-389-00	POLYESTER	0.1MF	100V
C643 ⚠	1-161-910-00	CERAMIC	390PF	500V
C644 ⚠	1-161-910-00	CERAMIC	390PF	500V
C651 ⚠	1-123-324-00	ELECT	1000MF	16V
C652 ⚠	1-123-324-00	ELECT	1000MF	16V
C653 ⚠	1-125-310-00	ELECT	470MF	16V
C654 ⚠	1-123-324-00	ELECT	1000MF	16V
C655 ⚠	1-123-319-00	ELECT	47MF	16V
C656 ⚠	1-123-319-00	ELECT	47MF	16V
C657 ⚠	1-125-310-00	ELECT	470MF	16V
C658 ⚠	1-123-320-00	ELECT	100MF	16V
C659 ⚠	1-125-310-00	ELECT	470MF	16V
C660 ⚠	1-123-357-00	ELECT	22MF	50V
C661 ⚠	1-123-357-00	ELECT	22MF	50V
C662 ⚠	1-123-320-00	ELECT	100MF	16V
C681 ⚠	1-130-027-00	POLYPROPYELENE	0.0056MF	50V
C682 ⚠	1-130-021-00	POLYPROPYELENE	0.0018MF	50V
C683 ⚠	1-130-026-00	POLYPROPYELENE	0.0047MF	50V
C684 ⚠	1-123-318-00	ELECT	33MF	16V
C685 ⚠	1-123-320-00	ELECT	100MF	16V
		DIODE		
D601 ⚠	8-719-503-06	DIODE S3WB60Z		
D631 ⚠	8-719-902-43	DIODE ESAD33-02CS		
D632 ⚠	8-719-300-27	DIODE CTV-22S		
D634 ⚠	8-719-900-95	DIODE V09G		
D635 ⚠	8-719-100-14	DIODE RD3.0E-B1		
D636 ⚠	8-719-100-14	DIODE RD3.0E-B1		
D637 ⚠	8-719-100-44	DIODE RD7.5E-B2		
D638 ⚠	8-719-100-57	DIODE RD10E-B2		
D639 ⚠	1-806-222-11	DIODE 1S2076A		
D640 ⚠	8-719-815-55	DIODE 1S1555		
D651 ⚠	1-806-222-11	DIODE 1S2076A		
D652 ⚠	8-719-100-23	DIODE RD4.3E-B2		
D653 ⚠	8-719-815-55	DIODE 1S1555		
D654 ⚠	8-719-815-55	DIODE 1S1555		
D655 ⚠	8-719-911-55	DIODE U05G		
D681 ⚠	8-719-815-55	DIODE 1S1555		
D682 ⚠	8-719-100-35	DIODE RD5.6E-B2		
D683 ⚠	8-719-100-68	DIODE RD13E-B2		
D684 ⚠	8-719-100-87	DIODE RD22E-B3		
D685 ⚠	8-719-200-02	DIODE 10E2		
		FUSE		
F601 ⚠	1-523-237-00	FUSE, TIME-LAG 3.15A 250V		
		IC		
IC651 ⚠	8-759-171-08	IC UPC7808H		
IC681 ⚠	8-759-937-59	IC MB3759		
		COIL		
L631 ⚠	1-421-545-00			
L632 ⚠	1-421-546-00			
L633 ⚠	1-421-547-00	10UH		
L634 ⚠	1-421-329-00	10UH		
L635 ⚠	1-421-421-00	100UH		
L651 ⚠	1-421-329-00	10UH		
L652 ⚠	1-408-454-00	100UH		
L653 ⚠	1-408-421-00	100UH		
		PRINTED CIRCUIT BOARD		
		**********		
⚠ ♦	1-593-678-00	C BOARD		
		*******		
⚠ ♦	1-593-679-00	D BOARD		
		*******		
⚠ ♦	1-593-680-00	F BOARD		
		*******		
		TRANSISTOR		
Q611 ⚠	8-729-133-55	TRANSISTOR 2SC2335-L2		
Q612 ⚠	8-729-133-55	TRANSISTOR 2SC2335-L2		
Q613 ⚠	8-729-102-03	TRANSISTOR 2SD1020		
Q614 ⚠	8-729-102-03	TRANSISTOR 2SD1020		
Q631 ⚠	8-729-103-43	TRANSISTOR 2SB734		
Q632 ⚠	8-729-306-72	TRANSISTOR 2SD677A		
Q651 ⚠	8-729-117-54	TRANSISTOR 2SA1175		
Q652 ⚠	8-729-178-54	TRANSISTOR 2SC2785		
Q681 ⚠	8-729-117-54	TRANSISTOR 2SA1175		
Q682 ⚠	8-729-178-54	TRANSISTOR 2SC2785		

When indicating parts by reference number, please include the board name.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Ref.No.	Part No.	Description			Remark
		RESISTOR			
R601	⚠1-217-292-00	WIRE WOUND	3.3	5W	F
R611	⚠1-246-535-00	CARBON	390K	1/4W	
R612	⚠1-246-535-00	CARBON	390K	1/4W	
R613	⚠1-212-946-00	FUSIBLE	3.3	1/2W	F
R614	⚠1-212-946-00	FUSIBLE	3.3	1/2W	F
R615	⚠1-246-449-00	CARBON	100	1/4W	
R616	⚠1-246-449-00	CARBON	100	1/4W	
R631	⚠1-206-475-00	METAL OXIDE	33	2W	F
R632	⚠1-247-923-00	CARBON	8.2	1/4W	F
R633	⚠1-535-363-00	SHUNT	0.02	2W	
R634	⚠1-246-485-00	CARBON	3.3K	1/4W	
R635	⚠1-246-473-00	CARBON	1K	1/4W	
R636	⚠1-246-453-00	CARBON	150	1/4W	
R637	⚠1-246-401-00	CARBON	4.7	1/4W	
R638	⚠1-246-473-00	CARBON	1K	1/4W	
R639	⚠1-246-485-00	CARBON	3.3K	1/4W	
R640	⚠1-244-893-00	CARBON	6.8K	1/2W	
R651	⚠1-246-489-00	CARBON	4.7K	1/4W	
R652	⚠1-246-497-00	CARBON	10K	1/4W	
R653	⚠1-246-481-00	CARBON	2.2K	1/4W	
R654	⚠1-246-489-00	CARBON	4.7K	1/4W	
R655	⚠1-246-465-00	CARBON	470	1/4W	
R656	⚠1-246-481-00	CARBON	2.2K	1/4W	
R681	⚠1-246-789-00	CARBON	3.3K	1/8W	
R682	⚠1-246-783-00	CARBON	1K	1/8W	
R683	⚠1-246-789-00	CARBON	3.3K	1/8W	
R684	⚠1-246-798-00	CARBON	18K	1/8W	
R685	⚠1-246-787-00	CARBON	2.2K	1/8W	
R686	⚠1-246-801-00	CARBON	33K	1/8W	
R687	⚠1-246-781-00	CARBON	680	1/8W	
R688	⚠1-246-790-00	CARBON	3.9K	1/8W	
R689	⚠1-246-787-00	CARBON	2.2K	1/8W	
R690	⚠1-246-790-00	CARBON	3.9K	1/8W	
R691	⚠1-246-793-00	CARBON	6.8K	1/8W	
R692	⚠1-246-783-00	CARBON	1K	1/8W	
R693	⚠1-246-795-00	CARBON	10K	1/8W	
R694	⚠1-246-798-00	CARBON	18K	1/8W	
R695	⚠1-246-798-00	CARBON	18K	1/8W	
		VARIABLE RESISTOR			
RV651	⚠1-228-141-00	RES, ADJ. METAL GLAZE 500			
RV681	⚠1-228-141-00	RES, ADJ. METAL GLAZE 500			
		RELAY			
RY651	⚠1-515-481-00	RELAY 12V 5A			
		SWITCH			
SW601	⚠1-553-834-11	PUSH SW 250V 5A/80A			
		TRANSFORMER			
T601	⚠1-421-481-00	LFT			
T611	⚠1-421-486-00	CHOKE COIL, COMMON			
T612	⚠1-447-282-00	CONV. T			
T613	⚠1-437-120-00	DR. T			

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description			Remark
		MISCELLANEOUS			
	⚠1-533-037-00	HOLDER, FUSE			
	⚠1-534-817-12	CORD, POWER (AEP MODEL)			
	⚠1-534-777-31	CORD, POWER (UK MODEL)			
	⚠1-464-217-00	CD-09(DC-DC CONV) MODULE			
		CAPACITOR			
C1	⚠1-124-036-00	ELECT	330MF	16V	
C2	⚠1-161-190-00	CERAMIC	0.001MF		
C3	⚠1-130-931-00	POLYPRO	0.0068MF	100V	
C4	⚠1-123-875-00	ELECT	10MF	50V	
C5	⚠1-123-875-00	ELECT	10MF	50V	
C6	⚠1-130-491-00	POLYESTER	0.047MF		
C7	⚠1-130-491-00	POLYESTER	0.047MF		
C8	⚠1-124-039-00	ELECT	10MF	16V	
		DIODE			
D1	⚠1-806-222-11	DIODE 1S2076A			
D2	⚠1-806-222-11	DIODE 1S2076A			
D3	⚠8-719-101-40	DIODE RD3.9E-L1			
		COIL			
L1	⚠1-421-550-00	66UH			
L2	⚠1-421-549-11	36UH			
L3	⚠1-408-575-00	100UH			
L4	⚠1-408-575-00	100UH			
L5	⚠1-408-416-00	47UH			
L6	⚠1-408-571-00	47UH			
L7	⚠1-408-571-00	47UH			
		PRINTED CIRCUIT BOARD			
	⚠●:1-608-212-00	CD.09 BOARD			
		TRANSISTOR			
Q1	⚠8-729-117-54	TRANSISTOR 2SA1175			
Q2	⚠8-729-177-43	TRANSISTOR 2SD789			
Q3	⚠8-729-178-54	TRANSISTOR 2SC2785			
Q4	⚠8-729-178-54	TRANSISTOR 2SC2785			
		RESISTOR			
R1	⚠1-246-789-00	CARBON	3.3K	1/8W	
R2	⚠1-246-811-00	CARBON	220K	1/8W	
R3	⚠1-246-802-00	CARBON	39K	1/8W	
R4	⚠1-246-860-00	CARBON	24K	1/8W	
R5	⚠1-246-805-00	CARBON	68K	1/8W	
R6	⚠1-246-864-00	CARBON	51K	1/8W	
R7	⚠1-246-852-00	CARBON	5.1K	1/8W	
R8	⚠1-246-800-59	CARBON	27K	1/8W	
R8	⚠1-246-802-59	CARBON	39K	1/8W	
R8	⚠1-246-803-59	CARBON	47K	1/8W	
R8	⚠1-246-804-59	CARBON	56K	1/8W	
R8	⚠1-246-861-59	CARBON	30K	1/8W	
R8	⚠1-246-862-59	CARBON	36K	1/8W	
R8	⚠1-246-866-59	CARBON	75K	1/8W	
R9	⚠1-246-771-00	CARBON	100	1/8W	
		TRANSFORMER			
T1	⚠1-447-383-00	CONV.T			

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K.V.K. ZUTPHEN 43369

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Consumer Products Group
Technical Support Dept.

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SONY

Service Bulletin

Date	Ref. N°	Model
14 Dec 1984	CV-06484	SL-C9E SL-C9ECS SL-C9UB SL-C9ES SL-C9F SL-C9AS

Subject

No Eject due to Defective Gear
Pas d'éjection, dû à un pignon défectueux
Kein Auswurf infolge fehlerhaften Zahnrads
No expulsión debido a un piñón defectuoso

English

Symptoms

- If excessive force is applied to the FL cassette compartment, gear C may break, or the sector gear may loosen, so that the cassette will not be ejected.
- The cassette door loosens, or does not move smoothly.

Remedy

1. Replacement of the defective gear C by the following kit :

Français

Symptômes

- Il se peut que le pignon C devient défectueux ou le pignon secteur se dégage lorsqu'une force excessive est appliquée sur le compartiment de cassette. Ceci évitera l'éjection de la cassette.
- Le couvercle du compartiment de cassette devient défectueux.

Remède

1. Remplacement du pignon C défectueux par la trousse suivante :

Deutsch

Symptome

- Bei Überbeanspruchung des Cassettenfachs tritt im Zahnrad C ein Fehler auf oder das Sektorrad löst sich. Somit wird die Cassette nicht ausgeworfen.
- Die Cassettenfachklappe löst sich oder bewegt sich fehlerhaft.

Abhilfe

1. Austausch des defekten Zahnrads C gegen den folgenden Bausatz :

Español

Síntomas

- Si se aplica una fuerza excesiva en el compartimiento de casete FL, el piñón C puede romperse o el sector piñón puede alejarse, lo que impide la expulsión del casete.
- La cubierta del compartimiento del casete es defectuoso.

Remedio

1. Cambio del piñón C defectuoso por el equipo siguiente :

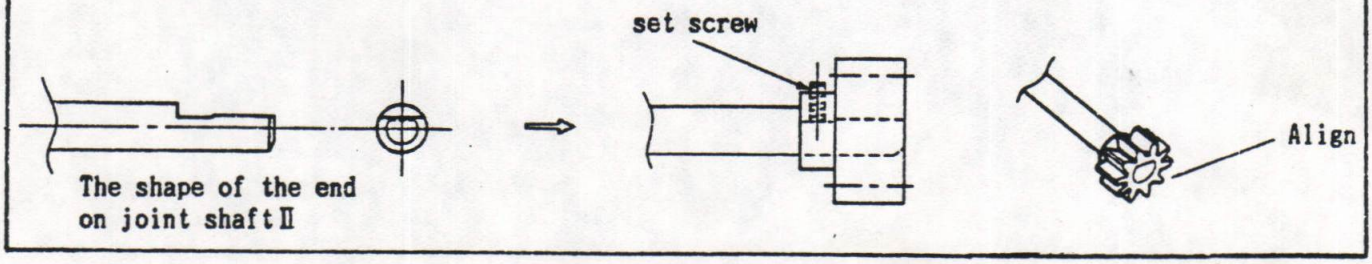
Description	Part number	Contents
Gear C / washer kit	A-6751-212-B	Joint shaft II (1); gear C I (2); set screw (2); washer (1); precision screw + K1.4 (1)

A. Replacement of the defective gear C
1) Remove gear C and the joint shaft.
2) Mount the new gear C I on the right end of the new joint shaft II, and align them. Then tighten the set screw.

A. Remplacement du pignon C
1) Enlever le pignon C ainsi que la tige de raccordement.
2) Monter le nouveau pignon CI à l'extrémité droite de la nouvelle tige de raccordement II, puis l'aligner et serrer la vis de calage.

A. Austausch des Zahnrads C
1) Zahnrad C und Verbindungsstange ausbauen.
2) Das neue Zahnrad C I auf das rechte Außenende der neuen Verbindungsstange II montieren und ausrichten. Einstellschraube festziehen.

A. Cambio del piñón C
1) Quitar el piñón C así como la barra de unión.
2) Montar el nuevo piñón C I en la extremidad izquierda de la nueva barra de unión II, después alinearlo y fijar el tornillo de fijación.



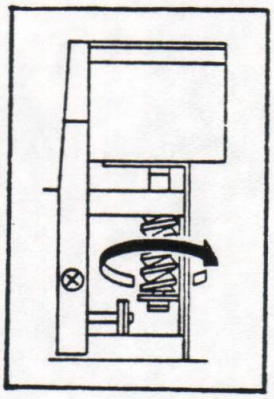
SONY SERVICE CENTRE (EUROPE) N.V. HALFSTRAAT 80 B-2621 SCHELLE (ANTWERP) BELGIUM

3) Turn the gear in the direction of the arrow so as to complete the cassette eject function.

3) Achever la fonction d'éjection en tournant l'engrenage dans la direction indiquée.

3) Getriebe in Pfeilrichtung drehen und Auswurffunktion durchführen.

3) Acabar la función de expulsión girando el engranaje en la dirección indicada.

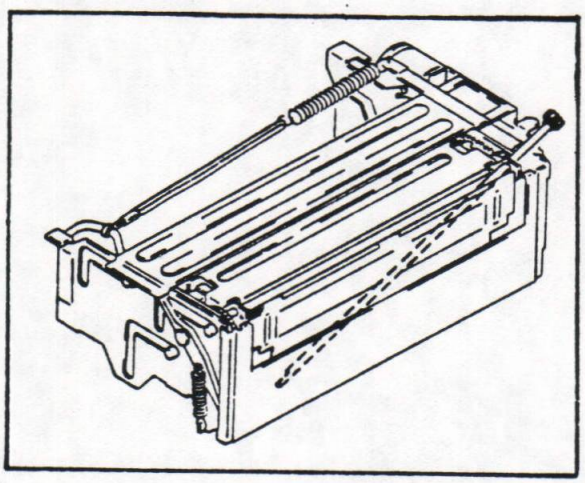


4) Insert the joint shaft II.

4) Introduire la tige de raccordement II.

4) Verbindungsstange II einführen.

4) Introducir la barra de unión II.

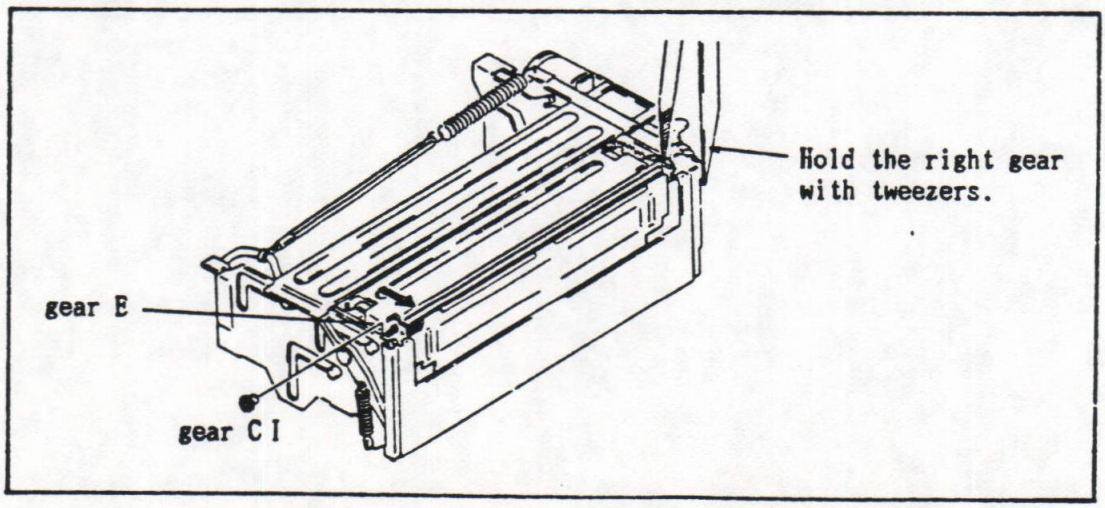


5) Then insert the shaft into the hole on the left side of the cassette compartment assembly.

5) Insérer la tige dans l'orifice du côté gauche du compartiment de cassette.

5) Stange in die Öffnung der linken Cassettenfachseite einführen.

5) Insertar la barra en el orificio del lado izquierdo del compartimiento del casete.



6) Mount gear C I at the left end of joint shaft II. Engage gear C I and gear E (black), and tighten the set screw so that the gear does not race.

Note
Move the left side of the cassette holder in the direction of the arrow so that both sides will be in phase.

B. Addition of a washer

If the sector gear loosens, restore it to the boss of the holder driving arm and secure it with a precision screw and a washer.

6) Monter un pignon CI à l'extrémité gauche de la tige. Faire engrener le pignon CI et le pignon E (noir), puis serrer la vis de calage afin que le pignon ne patine pas.

Note
Mettre le côté gauche du support de cassette dans la position la plus proche, afin d'ajuster la phase des deux côtés.

B. Montage de la rondelle

Si le pignon secteur se dégage, il y a lieu de le monter à nouveau au tenon du levier d'entraînement du support et de le fixer à l'aide d'une vis de précision et d'une rondelle.

6) Zahnrad C I auf das linke Außenende der Stange montieren und in Zahnrad E (schwarz) greifen lassen. Einstellschraube festziehen, damit das Zahnrad nicht schlendert.

Anmerkung
Die linke Cassettenhalterseite zur Phaseneinstellung der beiden Seiten auf die nächste Position einstellen.

B. Montage einer Unterlegscheibe

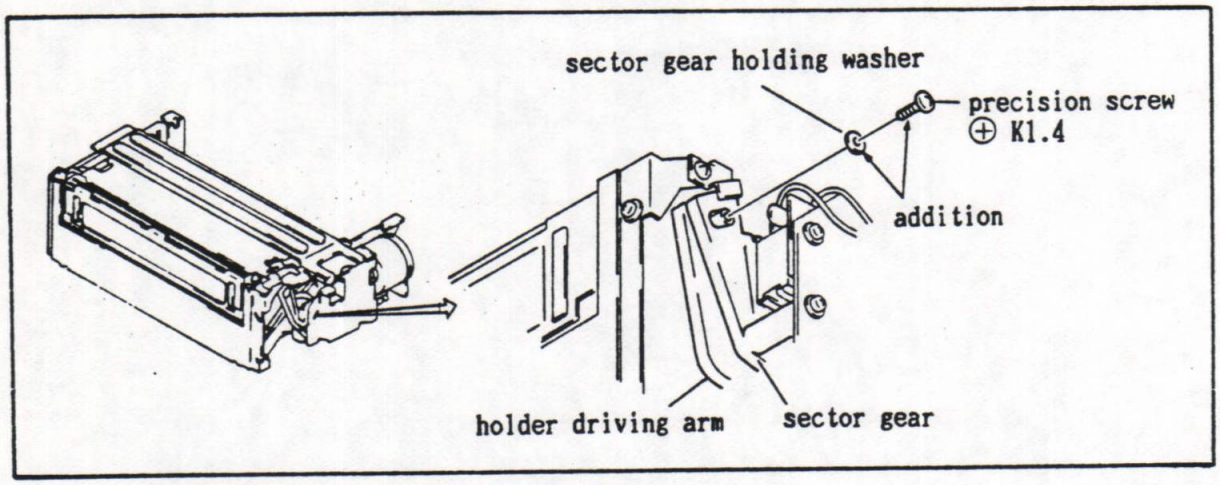
Löst sich das Sektorrad, das Rad wieder auf den Zapfen des Halterantriebhebels montieren und mit einer Präzisionsschraube und Unterlegscheibe versichern.

6) Montar un piñón C I en la extremidad izquierda de la barra. Ajustar el piñón C I y el piñón E (negro), después fijar el tornillo de fijación para que el piñón no deslice.

Nota
Poner el lado izquierdo del soporte del casete en la posición más cerca, para ajustar la fase de los dos lados.

B. Adición de una arandela

Si el sector pinón se aleja, hay que montarlo de nuevo al cubo de la palanca de accionamiento del soporte y de fijarlo por medio de un tornillo de precisión y de una arandela.



2. Cassette Door Replacement

1) Remove the two springs (fig. 1).
2) Loosen the four screws a - d, and remove the front panel and the cassette door from the cassette door assembly.

2. Remplacement du couvercle du compartiment

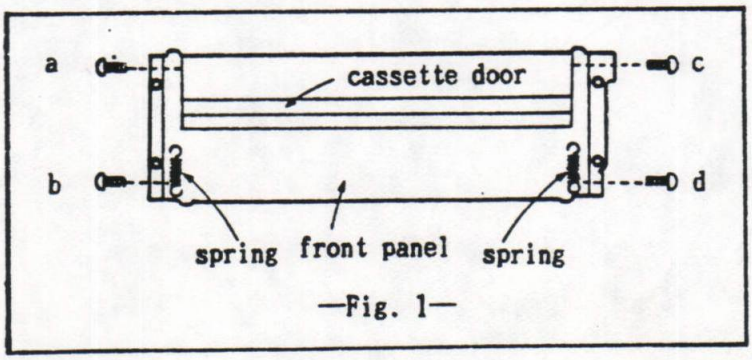
1) Enlever les deux ressorts (fig. 1).
2) Dévisser les quatre vis a - d, puis enlever le panneau frontal avec le couvercle du compartiment de cassette.

2. Austausch der Cassettenfachklappe

1) Zwei Federn ausbauen (Abb. 1).
2) Vier Schrauben a - d lösen und Frontplatte mit Cassettenfachklappe ausbauen.

2. Sustitución de la cubierta de compartimiento.

1) Quitar los dos resortes (fig. 1).
2) Destornillar los cuatro tornillos a - d, y quitar el panel frontal con la cubierta del compartimiento del casete.



—Fig. 1—

CV-06484

3) Loosen the two screws e and f (fig. 2).

4) Remove the cassette door from the front panel.

5) Install a new cassette door in reverse order 4 - 1.

Note
Loosen the two screws e and f holding the rail on the right, and adjust its position to obtain a 0.3 - 0.5 mm clearance between the roller and the rail. Use a 0.4 mm thick wire or the leg of a 1/8 W resistor (fig. 3).

3) Dévisser les deux vis e et f (fig. 2).

4) Enlever le couvercle du compartiment de cassette.

5) Monter un nouveau couvercle et ceci dans l'ordre 4 - 1.

Note
Lâcher les deux vis e et f retenant le rail de droite. Ensuite, régler la position du rail afin d'obtenir une distance de 0,3 - 0,5 mm entre la poulie et le rail. Utiliser un fil d'un diamètre de 0,4 mm ou une patte d'une résistance de 1/8 W (voir fig. 3).

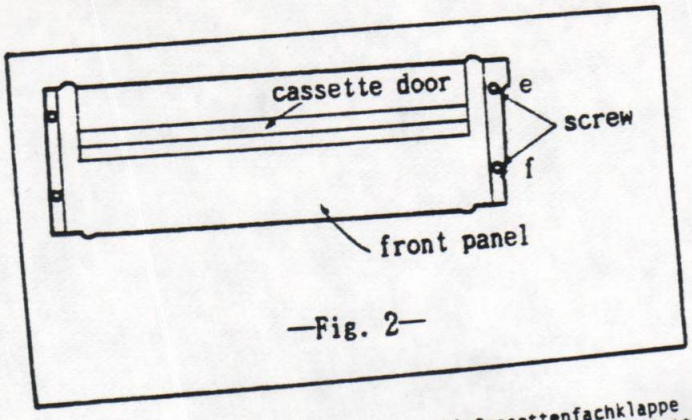
3) Zwei Schrauben e und f lösen (Abb. 2).

4) Cassettenfachklappe von der Frontplatte lösen.

5) Die neue Cassettenfachklappe in umgekehrter Reihenfolge 4 - 1 einbauen.

Anmerkung
Die zwei Schrauben e und f der Schiene rechts lockern und die Schiene einstellen, bis zwischen der Rolle und der Schiene ein Abstand von 0,3 - 0,5 mm entsteht. Dazu einen Draht von 0,4 mm ø oder ein Bein eines 1/8-W-Widerstands verwenden (Abb. 3).

3) Destornillar los dos tornillos e y f (fig. 2).

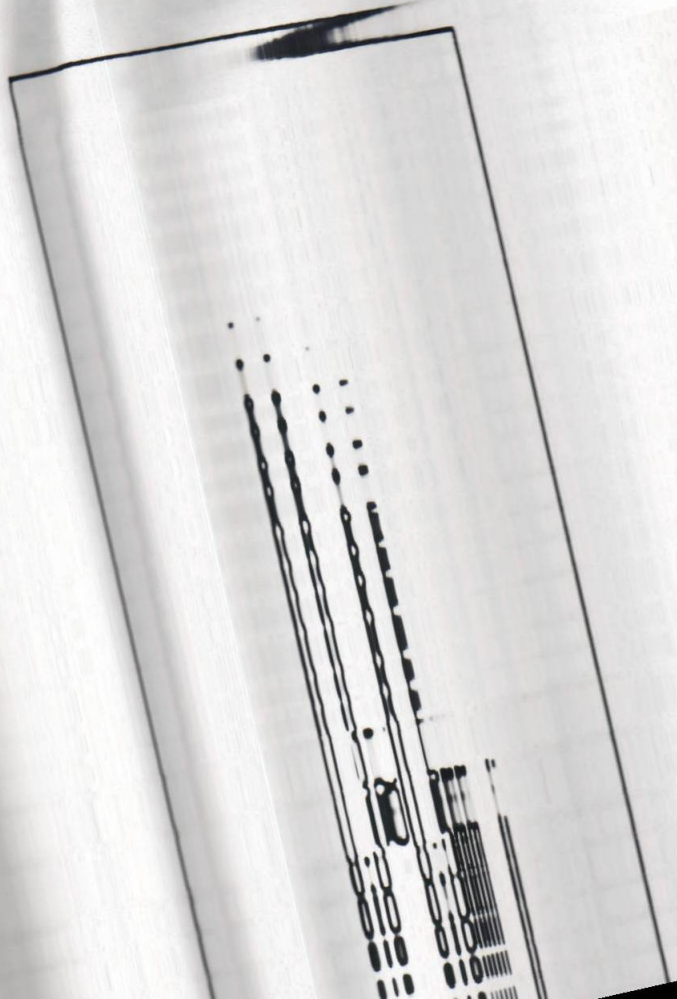


—Fig. 2—

4) Sacar la cubierta del compartimiento del casete.

5) Montar una nueva cubierta, y esto en el orden 4 - 1.

Nota
Soltar los dos tornillos e y f que retienen el rail de derecha. Después, ajustar la posición del rail hasta obtener una distancia de 0,3 - 0,5 mm entre la polea y el rail. Utilizar un hilo de un diámetro de 0,4 mm o una pierna de una resistencia de 1/8 W (véase fig. 3).



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3) Loosen the two screws e and f (fig. 2).

4) Remove the cassette door from the front panel.
5) Install a new cassette door in reverse order 4 - 1.

Note
Loosen the two screws e and f holding the rail on the right, and adjust its position to obtain a 0.3 - 0.5 mm clearance between the roller and the rail. Use a 0.4 mm thick wire or the leg of a 1/8 W resistor (fig. 3).

3) Dévisser les deux vis e et f (fig. 2).

4) Enlever le couvercle du compartiment de cassette.
5) Monter un nouveau couvercle et ceci dans l'ordre 4 - 1.

Note
Lâcher les deux vis e et f retenant le rail de droite. Ensuite, régler la position du rail afin d'obtenir une distance de 0,3 - 0,5 mm entre la poulie et le rail. Utiliser un fil d'un diamètre de 0,4 mm ou une patte d'une résistance de 1/8 W (voir fig. 3).

3) Zwei Schrauben e und f lösen (Abb. 2).

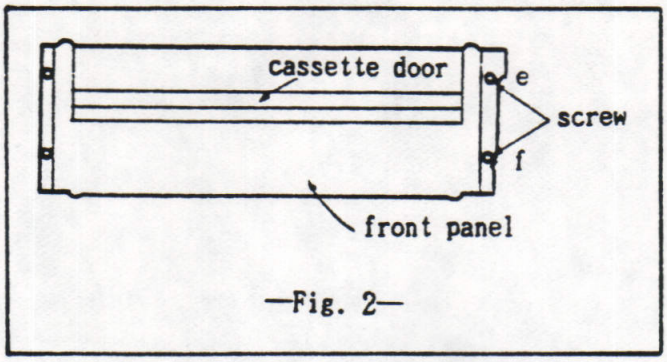
4) Cassettenfachklappe von der Frontplatte lösen.
5) Die neue Cassettenfachklappe in umgekehrter Reihenfolge 4 - 1 einbauen.

Anmerkung
Die zwei Schrauben e und f der Schiene rechts lockern und die Schiene einstellen, bis zwischen der Rolle und der Schiene ein Abstand von 0,3 - 0,5 mm entsteht. Dazu einen Draht von 0,4 mm ø oder ein Bein eines 1/8-W-Widerstands verwenden (Abb. 3).

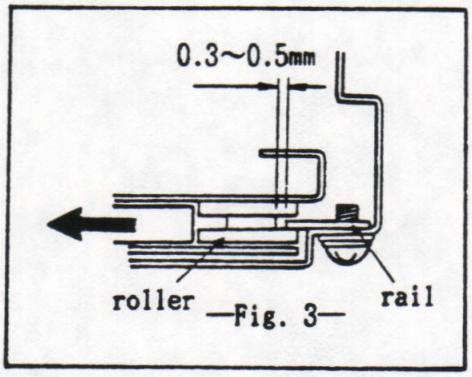
3) Destornillar los dos tornillos e y f (fig. 2).

4) Sacar la cubierta del compartimiento del casete.
5) Montar una nueva cubierta, y esto en el orden 4 - 1.

Nota
Soltar los dos tornillos e y f que retienen el rail de derecha. Después, ajustar la posición del rail hasta obtener una distancia de 0,3 - 0,5 mm entre la polea y el rail. Utilizar un hilo de un diámetro de 0,4 mm o una pierna de una resistencia de 1/8 W (véase fig. 3).



—Fig. 2—



—Fig. 3—

Always remove the rail before installing the cassette door !

Toujours enlever le rail avant de monter le couvercle du compartiment !

Bei der Montage der Cassettenfachklappe zunächst die Schiene ausbauen !

Siempre quitar el rail antes de montar la cubierta del compartimiento !

SONY

Service Bulletin

Date	Ref. N°	Model
12 Oct 1984	CV-05584	SL-C9E SL-C9ECS SL-C9ES SL-C9UB

Subject

New Pinch Roller
Nouveau galet-presseur
Neue Andruckrolle
Nuevo rodillo de presión

English

When the tape path alignment cannot be performed correctly, use the new pinch roller, part number X-0375-781-1.

Français

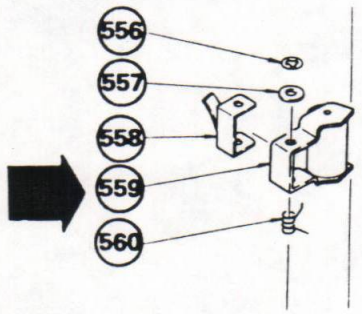
S'il est impossible d'obtenir un réglage correct du transport de bande, il y a lieu de monter le nouveau galet-presseur X-0375-781-1.

Deutsch

Läßt sich der Abgleich des Bandtransportweges nicht korrekt durchführen, die neue Andruckrolle X-0375-781-1 montieren.

Español

Si es imposible de obtener un reglaje correcto del transporte de cinta, montar el nuevo rodillo de presión X-0375-781-1.



SONY®

Service Bulletin

Date	Ref. N°	Model
30 MAY 1984	CV-02784	SL-C9E SL-C9ECS SL-C9ES

Subject Insufficient Forward Back Tension at Low Temperature
Tension de déroulement insuffisante dans de basses températures
Fehlerhafter Abwickelzug bei niedriger Temperatur
Par de arrastre insuficiente en bajas temperaturas

English

In very cold areas an insufficient forward back tension is caused by the thermal characteristics of the reel servo circuit. In winter timer such a cold condition may affect timer recordings when the room-heating system is switched off. As a countermeasure, change the reel servo circuit on the SS-11 board as shown below.

Français

Dans les régions très froides, l'insuffisance de la tension de déroulement est due aux caractéristiques thermiques du circuit d'asservissement des bobines. Ainsi, en hiver, le froid peut affecter les enregistrements préprogrammés lorsque le chauffage est arrêté. Afin d'y remédier, il y a lieu de modifier le circuit d'asservissement des bobines sur la platine SS-11 comme indiqué ci-dessous.

Deutsch

In sehr kalten Gegenden können die thermischen Eigenschaften der Bandtellerservoschaltung zu einem ungenügenden Abwickelzug führen. Im Winter kann die Kälte bei abgestellter Heizanlage somit die Schaltuhraufnahme beeinflussen. Als Abhilfe die Bandtellerservoschaltung der Platine SS-11 wie gezeigt modifizieren.

Español

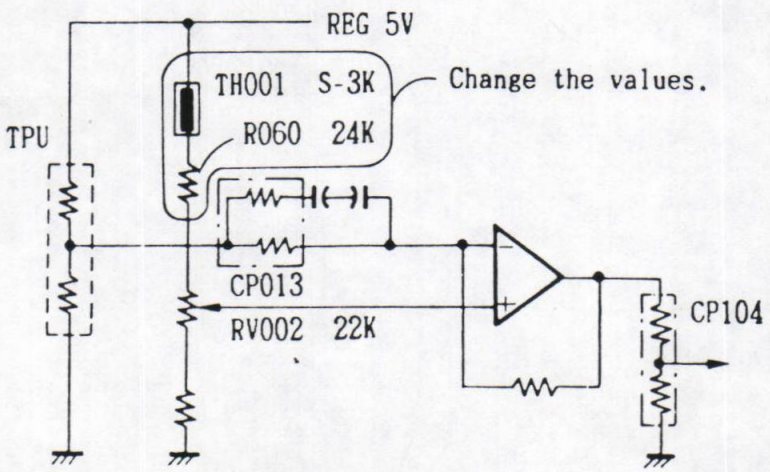
En condiciones de temperatura muy baja, el par de arrastre puede ser insuficiente, por causa de las caracteristicas térmicas del circuito de servo del carrete. De este modo, grabaciones programadas, hechas con la calefacción parada, pueden ser afectadas. Para remediar este problema, cambiar el circuito de servo del carrete en la placa SS-11, tal como se indica.

① TH001 Thermistor

S-3K ⇨ S-1K (1-800-198-XX)

② R060 Resistor

24K Ω ⇨ 27K Ω (1-247-865-00)



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Service Bulletin

Date	Ref. N°	Model
10 APR 1984	CV-00884	SL-C9 series

Subject Defective Battery Back-Up Operation
Fonctionnement défectueux de la batterie de secours
Fehlerhafte Notstromakkufunktion
Operación errónea de la batería de repuesto

English :

The battery back-up operation may become defective when operating at high temperatures. As a remedy, modify the TU board as follows.

Français :

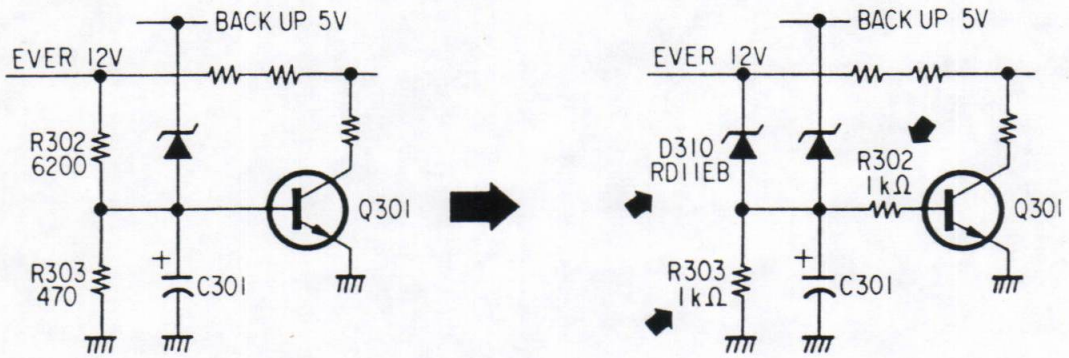
Il se peut que la batterie de secours devienne défectueuse lorsqu'elle fonctionne dans des températures ambiantes élevées. Afin d'y remédier, il y a lieu d'apporter la modification suivante à la platine TU.

Deutsch :

Bei hohen Umgebungstemperaturen kann im Notstromakku ein Fehler auftreten. Gegebenenfalls die Platine TU wie folgt modifizieren.

Español :

Es posible que la batería de repuesto se estropea si debe funcionar en temperaturas bastante elevadas. Para remediar este problema, modificar la placa TU como se indica.



1) Mount D310 (RD11EB, 8-719-111-07) in the place of R302, and change R303 from 470Ω to 1kΩ (1/4W, 1/6W or 1/8W).

2) Cut the pattern between Q301 base and the plus side of electrolytic capacitor C301, and mount R302, changed from 6.2kΩ to 1kΩ, between them on the rear side (see figures).

1) Remplacer R302 par D310 (RD11EB, 8-719-111-07) et porter la valeur de R303 de 470Ω à 1 kΩ (1/4 W, 1/6 W ou 1/8 W).

2) Couper le circuit entre la base de Q301 et le côté positif du condensateur électrolytique C301, puis y monter C302, changé de 6,2 kΩ en 1 kΩ (1/4 W, 1/8 W), du côté postérieur (voir les figures).

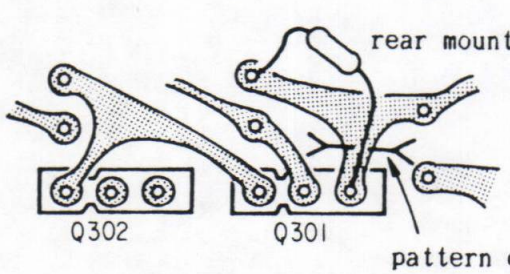
1) R302 gegen D310 (RD11EB, 8-719-111-07) austauschen und R301 von 470Ω in 1 kΩ (1/4 W, 1/6 W oder 1/8 W) ändern.

2) Leiterbahn zwischen der Basis von Q301 und der Positivseite des Elkos C301 unterbrechen und den von 6,2 k in 1 k (1/4 W, 1/6 W oder 1/8 W) geänderten Kondensator C302 auf der Rückseite anlöten (siehe Abbildungen).

1) Cambiar R302 por D310 (RD11EB, 8-719-111-07). Cambiar R301 de 470Ω en 1 kΩ (1/4 W, 1/6 W o 1/8 W).

2) Cortar la pista entre la base de Q301 y el terminal positivo de condensador C301, y soldar C302, cambiado de 6k2 a 1k (1/4 W, 1/6 W o 1/8 W) entre estos dos puntos, como indicado abajo.

A) TU-24 board (SL-C9E, C9UB, C9AS)



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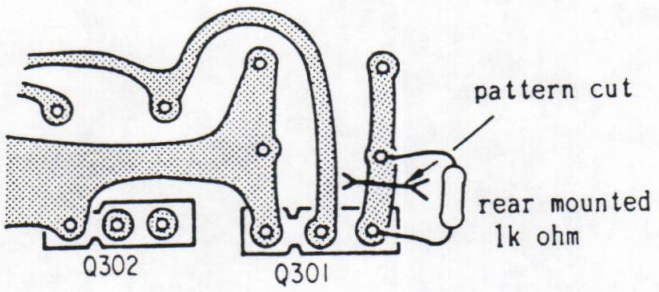
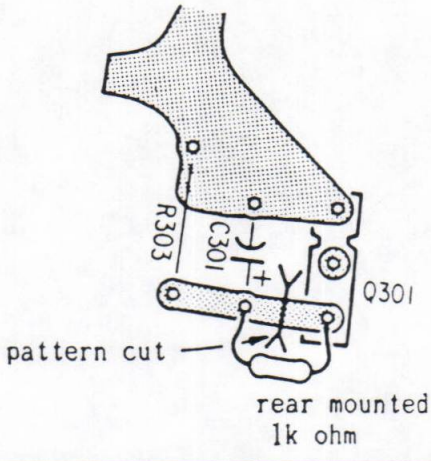
B) TU-35 board (SL-C9ES, C9ECS)



C) TU-41 board (SL-C9F)



Applicable Models : Modèles concernés : Betreffend Modelle : Modificado en fábrica :

SL-C9E	272 651 ~
SL-C9ES	225 701 ~
SL-C9ECS	201 501 ~
SL-C9F	200 501 ~
SL-C9AS	202 101 ~
SL-C9UB	228 051 ~

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Service Bulletin

Date	Ref. N°	Model
10 APR 1984	CV-01184	SL-C9series

Subject Static Discharge of Video Cassettes
Décharge statique de la cassette vidéo
Statische Entladung der Videocassette
Descargo estático de la cassette Video

English :

When a statically charged tape is wound around the S or T reel during FF or REW, it will be discharged to the cassette press spring and from the spring through the window deposition space to the nearby cover plate.

Français :

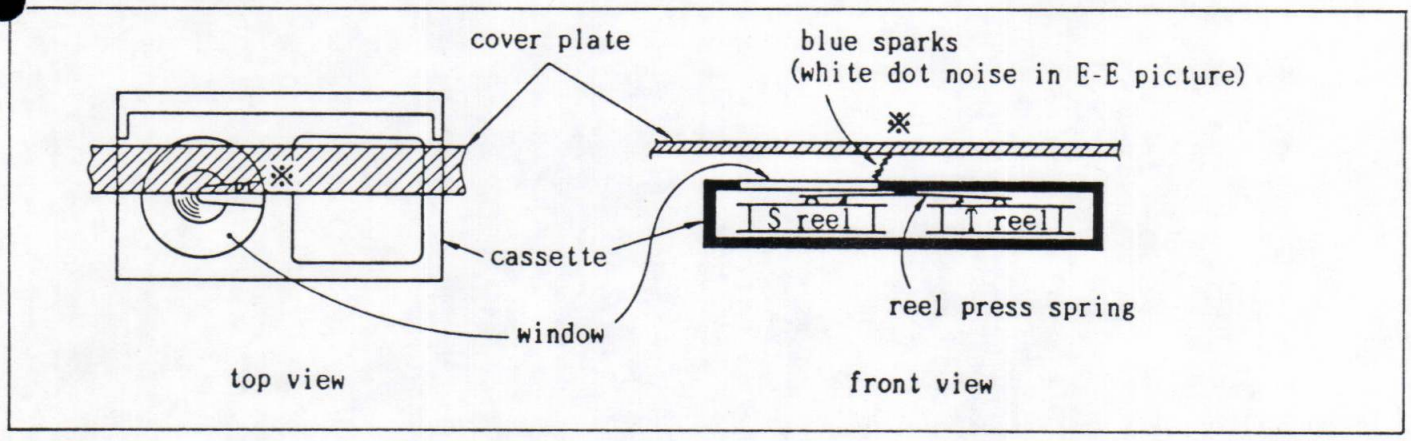
Si une bande chargée d'électricité statique est enroulée par la bobine réceptrice ou débitrice pendant la fonction FF ou REW, elle se déchargera via le ressort de pression de la cassette, par la plaquette de recouvrement vers l'appui du voyant.

Deutsch :

Beim Auf- oder Abwickeln eines statisch geladenen Bandes im FF- oder REW-Modus tritt eine Entladung über die Druckfeder der Cassette auf, und von dieser wiederum durch die Sichtscheibenauflage über die Abdeckplatte.

Español :

Si una cassette cargada de electricidad estática es reembobinado por la bobina receptora o debitora, será descargada al resorte de presión de la cassette, y de este último a la placa de cubierto del compartimento del cassette.



Remedy

Replace the aluminium cover plate by a molded plastic one.

Remède

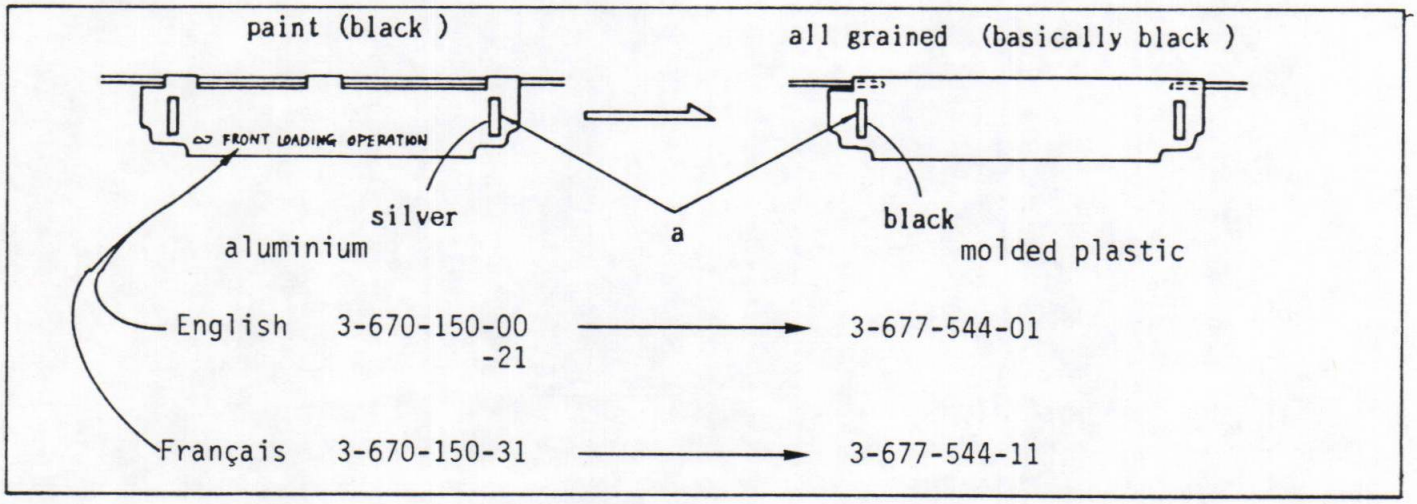
Remplacer la plaquette de recouvrement en aluminium par une plaquette moulée en plastique.

Abhilfe

Die Alu-Abdeckplatte gegen eine gegossene Kunststoffplatte austauschen.

Remedio

Cambiar la placa de cubierto en aluminio por una placa en plástico.



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Service Bulletin

Date	Ref. N°	Model
12 APR 1984	CV-01384	SL-C9E

Subject Beat after Power On
Interférence après la mise en marche de l'appareil
Interferenz nach Einschalten des Geräts
Interferencia al poner en marcha el aparato

English :

Symptom :

With an antenna input of about 70dBμV beat may be generated after power on. It disappears shortly afterwards.

Remedy :

Replace the 0.1μF PET capacitor C009, connected to pin 14 of IC001 (TU-41 board), by a 1μF/50V electrolytic capacitor. Watch the polarity when mounting; the positive side of the electrolytic capacitor is at the IC001 pin 14 side.

Notes :

- Applicable serial numbers
  200 001 - 200 500.
- From S/N 200 501 onwards, the sets are modified at the factory.

Français :

Symptôme :

Il se peut que le signal d'entrée de l'antenne de ca. 70 dBμV produise une interférence lorsque l'appareil est mis en marche. Cette interférence disparaît à bref délai.

Remède :

Remplacer le condensateur PET C009 de 0,1 μF, raccordé à la broche 14 de l'IC 001 (platine TU-41), par un condensateur électrolytique de 1 μF/50V. Faire attention à la polarité lors du montage; le côté positif de ce condensateur se trouve du côté de la broche 14 de l'IC001.

Notes :

- Ce remède concerne les numéros de série
  200 001 - 200 500.
- A partir du numéro de série 200 501, les appareils seront modifiés en usine.

Deutsch :

Symptom :

Liegt ein Antenneneingangssignal von ca. 70 dBμV an, kann beim Einschalten des Geräts Interferenz auftreten.

Abhilfe :

Den an Pin 14 von IC001 (Platine TU-41) angeschlossenen 0,1-μF-PET-Kondensator C009 gegen einen 1-μF/50-V-Elko austauschen. Beim Einbau auf die Polarität achten; die positive Seite des Elkos liegt bei Pin 14 von IC001.

Anmerkungen :

- Diese Abhilfe bezieht sich ausschließlich auf die Seriennummern
  200 001 - 200 500.
- Die Geräte werden ab Seriennummer 200 501 im Werk modifiziert.

Español :

Síntomo :

Si la tensión de entrada de antena es aproximadamente 70 dBμV, puede occurirse una interferencia al enchufar el aparato, que desaparece un poco después.

Remedio :

Sustituyen condensador C009 de 0,1 μF (tipo PET), conectado al terminal 14 del C.I. 001 (placa TU-41), por un tipo electrolítico de 1 μF/50V. Fíjense en la polaridad (terminal positivo al terminal 14 del C.I.001).

Nota :

- La modificación está aplicable para los Nos. de Serie
  200 001 - 200 500.
- A partir de 200 501, los aparatos han sido modificados en fábrica.

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Service Bulletin

Date	Ref. N°	Model
16 FEB 1984	CV-00284	SL-F1, -C9 series

Subject Upper Drum Replacement
Remplacement du tambour supérieur
Austausch des oberen Kopftrommelteils
Sustitución del tambor superior

English

The upper drum A-6760-117-A has been replaced by the A-6760-138-A. This new part is also used as a replacement for the new SL-C30, -C40 series.
The bracket plate (upper) is not necessary when fixing the new upper drum, since the height is determined by the two washers already mounted on the new upper drum. Fix the upper drum onto the support with the existing hex screw.

Français

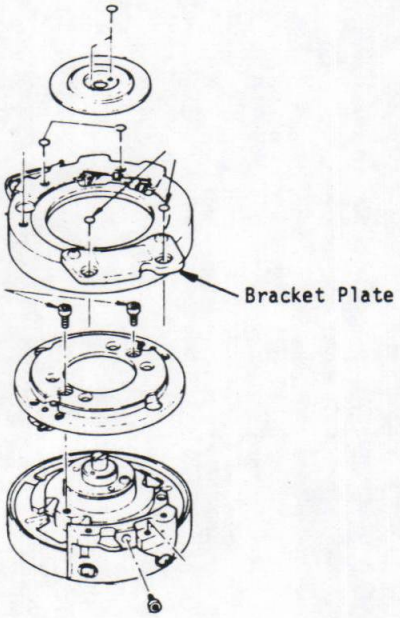
Le tambour supérieur A-6760-117-A a été remplacé par le A-6760-138-A. Ce remplacement est aussi utilisé dans la nouvelle série SL-C30, -C40.
Etant donné que la hauteur du nouveau tambour est réglée par les deux rondelles, il n'y a plus lieu d'installer la fixation supérieure. Fixer le tambour sur le support à l'aide de la vis hexagonale existante.

Deutsch

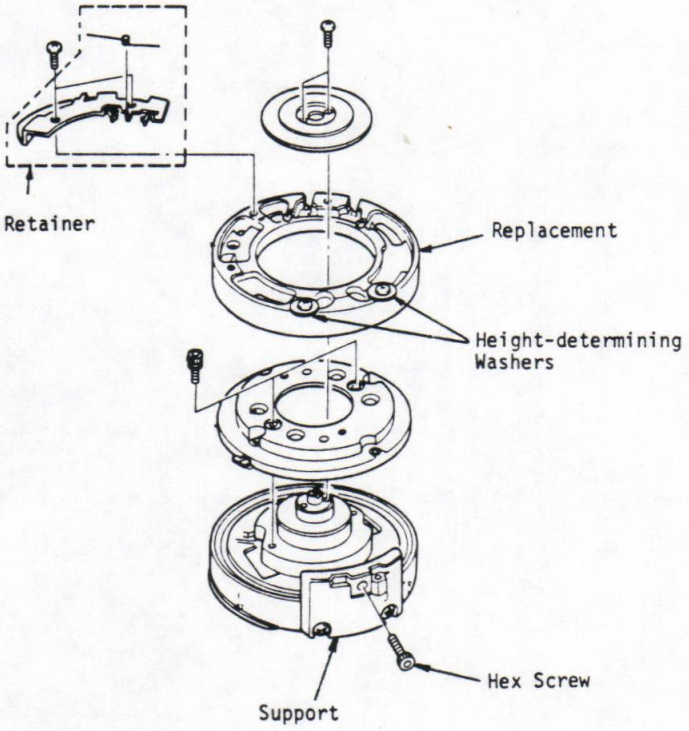
Der obere Kopftrommelteil A-6760-117-A wurde gegen den ebenfalls in der Serie SL-C30, -C40 verwendeten Typ A-6760-138-A ausgetauscht.
Da die Höhe des neuen Kopftrommeloberteils durch die zwei Scheiben eingestellt wird, ist die Halterung nicht mehr erforderlich. Den oberen Kopftrommelteil mit der Inbusschraube am Halter befestigen.

Español

El tambor superior A-6760-117-A se ha sustituido por el A-6760-138-A. Esta nueva pieza también se utiliza como recambio para las nuevas series SL-C30, -C40.
No es necesaria la placa del soporte (superior) cuando se fije el nuevo tambor superior ya que la altura está determinada por las dos arandelas ya montadas en el nuevo tambor superior. Fijar el tambor superior en el soporte con el tornillo hexagonal existente.



A-6760-117-A



A-6760-138-A

SONY

Service Bulletin

Date	Ref. N°	Model
16 FEB 1984	CV-00384	SL-C9 series

Subject Syscon Microcomputer Replacement
Remplacement des microprocesseurs du contrôle de système
Austausch der Systemsteuerungsmikroprozessoren
Sustitución del microcomputador de SYSCON

English

As shown in the table below, two different versions of the Syscon CPU's have been used in production.

Français

La liste suivante donne toute information relative aux deux versions des processeurs centraux pour le contrôle de système utilisées pendant la production.

Deutsch

Die folgende Liste zeigt die zwei in der Produktion verwendeten Typen von Zentraleinheiten fÜr die Systemsteuerung.

Español

Como puede verse en la tabla que sigue, en producción se han utilizado dos versiones diferentes del SYSCON CPU.

Ⓐ	8-759-903-45	MB-88401-127M	→	Ⓐ 8-759-906-55	MB-88401-179M
★Ⓑ	8-759-903-62	MB-88401-128M		Ⓑ 8-759-906-56	MB-88401-180M
Ⓒ	8-759-903-63	MB-88401-129M		Ⓒ 8-759-907-24	MB-88401-193M

In case of a defect, a CPU should be replaced by its original MB number. Until May 1984, however, the CPU Ⓑ marked ★ will not be available from SEC. In such a case, replace the three CPU's by -179M, -180M, -193M.

En cas de défaut, toujours remplacer les processeurs centraux par les types MB originaux. Toutefois, le processeur ★Ⓑ ne sera pas disponible qu'à partir du mois de mai prochain. Le cas échéant, remplacer les trois processeurs par les types -179M, -180M, -193M.

Bei einem Fehler die Zentraleinheiten stets gegen den Original-MB-Typ austauschen. Typ ★Ⓑ wird aber erst im kommenden Mai zur VerfÜgung stehen. Gegebenenfalls die drei Zentraleinheiten gegen die Typen -179M, -180M, -193M austauschen.

En caso de existir algún problema, una CPU deberá sustituirse por su número original MB. No obstante, hasta Mayo de 1984, SEC no podrá proporcionar la CPU Ⓑ marcada con ★. Entretanto, sustituir las tres CPUs por las -179M, -180M, -193M.